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MATHER AFB, CALIFORNIA. REVISED UNIFORM SUMMARY OF SURFACE WEAT--ETC (1)  
JUN 82

UNCLASSIFIED USAFETAC/DS-82/033

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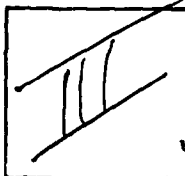
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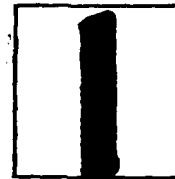
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USAF ETAC  
Air Weather Service ( MAC )**

**REVISED UNIFORM SUMMARY ON  
SURFACE WEATHER OBSERVATIONS**

MATHER AFB CA  
N 38 34 W 121 18 FLD ELEV 96 FT KMH MSC # 724835

PARTS A-F  
POR FROM HOURLY OBS: JAN 73 - DEC 81

POR FROM DAILY OBS: SEP 41 - JAN 46, JUN 46 - DEC 81

TIME CONVERSION GMT TO LST: -8

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This technical report has been reviewed and is approved for publication.

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FOR THE COMMANDER

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AWS Scientific and Technical  
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The number that identifies the station in this summary is an AWS Master Station Catalog number. This number is comprised of the WMO number with the addition of a suffix zero; or, in cases where there is no designated WMO number, a 5-digit number created in agreement with WMO rules, plus a sixth qualifying digit. These numbers (also referred to as DATSAV or USAFETAC numbers) uniquely identify each of more than 15,000 reporting stations around the world. This is the provenance of the number (e.g., MSC 999999) which will appear on future OL-A standard products.

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SECURITY CLASSIFICATION OF THIS PAGE (When Data Entered)

ADP 850 192

REPORT DOCUMENTATION PAGE		READ INSTRUCTIONS BEFORE COMPLETING FORM
1. REPORT NUMBER USAFETAC/DS- 82/033	2. GOVT ACCESSION NO.	3. RECIPIENT'S CATALOG NUMBER
4. TITLE (and Subtitle) Revised Uniform Summary of Surface Weather Observations (RUSSWO)- Mather AFB, California		5. TYPE OF REPORT & PERIOD COVERED Final rept.
7. AUTHOR(s)		6. PERFORMING ORG. REPORT NUMBER
9. PERFORMING ORGANIZATION NAME AND ADDRESS USAFETAC/OL-A Air Force Environmental Technical Appl. Center Scott AFB IL 62225		8. CONTRACT OR GRANT NUMBER(s)
11. CONTROLLING OFFICE NAME AND ADDRESS USAFETAC/CBD Air Weather Service (MAC) Scott AFB IL 62225		10. PROGRAM ELEMENT, PROJECT, TASK AREA & WORK UNIT NUMBERS
14. MONITORING AGENCY NAME & ADDRESS (if different from Controlling Office)		12. REPORT DATE 4 JUN 82
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18. SUPPLEMENTARY NOTES Supersedes Rept. No. USAFETAC/DS-79/007, AD-A069 236.		
19. KEY WORDS (Continue on reverse side if necessary and identify by block number) *RUSSWO      Daily temperatures      Atmospheric pressure Snowfall      Extreme snow depth      Extreme surface winds Climatology      Sea-level pressure      Psychrometric summary Surface Winds      Extreme temperature      Ceiling versus visibility Relative Humidity      *Climatological data      (over)		
20. ABSTRACT (Continue on reverse side if necessary and identify by block number) This report is a six-part statistical summary of surface weather observations for MATHER AFB, CALIFORNIA It contains the following parts: (A) Weather Conditions; Atmospheric Phenomena; (B) Precipitation, Snowfall and Snow Depth (daily amounts and extreme values); (C) Surface winds; (D) Ceiling versus Visibility; Sky Cover; (E) Psychrometric Summaries (daily maximum and minimum temperatures, extreme maximum and minimum temperatures, psychrometric summary of wet-bulb temperature depression versus dry-bulb temperature, means and standard deviations of dry-bulb, wet-bulb (over)		

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19. Percentage frequency of distribution tables  
Dry-bulb temperature versus wet-bulb temperature  
Cumulative percentage frequency of distribution tables

California

Mather AFB, California

20. and dew point temperatures and relative humidity); and (F) Pressure Summary (means, standard, deviations, and observation counts of station pressure and sea-level pressure). Data in this report are presented in tabular form, in most cases in percentage frequency of occurrence or cumulative percentage frequency of occurring tables.

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U S AIR FORCE  
ENVIRONMENTAL TECHNICAL  
APPLICATIONS CENTER

## REVISED UNIFORM SUMMARY OF SURFACE WEATHER OBSERVATIONS

### HOURLY OBSERVATIONS

Hourly observations are defined as those reports or record-special observations recorded at scheduled hourly intervals.

### DAILY OBSERVATIONS

Daily observations are selected from all data recorded on reporting forms and combined into summary of the day observations (selected from record-special, hourly summary of the day, remarks, etc.)

### DESCRIPTION OF SUMMARIES

Each section is a brief description of the data comprising each part of the revised uniform summary of surface weather observations and the manner of presentation. Summaries are prepared from hourly and daily observations recorded by stations operated by the U.S. Air Force and some foreign stations with similar reporting practices.

Unless otherwise noted the following summaries are included for this station:

#### PART A WEATHER CONDITIONS

##### ATMOSPHERIC PHENOMENA

#### PART B PRECIPITATION

##### SNOWFALL

##### SNOW DEPTH

#### PART C SURFACE WINDS

#### PART D CEILING VERSUS VISIBILITY

##### SKYCOVER

#### PART E DAILY MAX, MIN, & MEAN TEMP

##### EXTREME MAX & MIN TEMP

##### PSYCHROMETRIC-DRY VS WET BULB

##### MEAN & STD DEV - (DRY BULB, WET BULB, & DEW POINT)

##### RELATIVE HUMIDITY

#### PART F STATION PRESSURE

##### SEA LEVEL PRESSURE

### STANDARD 3-HOUR GROUPS

All summaries requiring diurnal variations are summarized in eight 3-hour periods corresponding to the following sets of hourly observations: 0000-0300, 0300-0600, 0600-0900, 0900-1200, 1200-1500, 1500-1800, 1800-2100, 2100-2400 hours local standard time.

### MISSING HOUR GROUPS

Summary sheets are omitted when stations maintaining limited observing schedules did not report certain three-hour periods for any particular month during the available period of record. Such missing sheets are listed below, and are applicable to all summaries prepared from hourly observations.

JANUARY \_\_\_\_\_

FEBRUARY \_\_\_\_\_

MARCH \_\_\_\_\_

APRIL \_\_\_\_\_

MAY \_\_\_\_\_

JUNE \_\_\_\_\_

JULY \_\_\_\_\_

AUGUST \_\_\_\_\_

SEPTEMBER \_\_\_\_\_

OCTOBER \_\_\_\_\_

NOVEMBER \_\_\_\_\_

DECEMBER \_\_\_\_\_

STATION NO. ON SUMMARY	STATION NAME	LATITUDE	LONGITUDE	FIELD ELEV. (FT)	CALL SIGN	WMO NUMBER
724835	MATHER AFB/SACRAMENTO CALIFORNIA	N 38 34	W 121 18	96	KMHR	

### STATION LOCATION AND INSTRUMENTATION HISTORY

NUMBER OF LOCATION	GEOGRAPHICAL LOCATION & NAME	TYPE OF STATION	AT THIS LOCATION		LATITUDE	LONGITUDE	ELEVATION ABOVE MSL		OBS PER DAY
			FROM	TO			FIELD (FT)	MT. BARO.	
1	Mather Field	AAF	Sep 41	May 48	N 38 25	W 121 20	89	92 ft	24
2	Mather Air Force Base	AFB	Jun 48	6 Apr 53	N 38 33	W 121 18	Same	Same	24
3	Same	Same	7 Apr 53	3 May 62	N 38 34	Same	92	101 ft	24
4	Same	Same	4 May 62	2 Apr 63	Same	Same	106	92 ft	24
5	Same	Same	3 Apr 63	4 Apr 65	Same	Same	96	Same	24
6	Same	Same	5 Apr 65	Feb 76	Same	Same	Same	131 ft	24
7	Same	Same	1 Feb 76	26 Apr 82	Same	Same	Same	92 ft	24

NUMBER OF LOCATION	DATE OF CHANGE	SURFACE WIND EQUIPMENT INFORMATION				REMARKS, ADDITIONAL EQUIPMENT, OR REASON FOR CHANGE
		LOCATION	TYPE OF TRANSMITTER	TYPE OF RECORDER	HT ABOVE GROUND	
1	Sep 41	N/A	Anemometer	N/A	N/A	
2	7 Apr 53	Located on control tower	Selsyn	ML-144	72 ft	
3	4 Jan 55	Located on top of tower	Same	ML-144D	90 ft	
4	3 Apr 56	Same	Same	Same	97 ft	
5	15 Jul 60	Located just S of the touchdown area of Rnwy 22L	AN/GMQ-11	RO-2	14 ft	
6	5 Apr 61	Located 600 ft SSE of centerline of Rnwy 22L	Same	Same	Same	
7	4 May 62	Located 600 ft South, 1750 ft West of the approach end of Rnwy 22L	Same	Same	Same	
8	4 Apr 66	1. Located 600 ft S of center and 1800 ft from end of Rnwy 22L	AN/GMQ-11	RO-2	13 ft	

SAFETAC FORM NOV 73 0-19 (OL A) PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE

CONTINUED ON REVERSE SIDE

NUMBER OF LOCATION	DATE OF CHANGE	SURFACE WIND EQUIPMENT INFORMATION				REMARKS, ADDITIONAL EQUIPMENT, OR REASON FOR CHANGE
		LOCATION	TYPE OF TRANSMITTER	TYPE OF RECORDER	HT ABOVE GROUND	
9	1 Apr 68	2. Located 600 ft S of center and 750 ft from end of Rnwy 04R 1. Located 600 ft SE of center- line and 1800 ft from end of Rnwy 22L.	Same	Same	Same	
10	31 Dec 70	2. Located 500 ft SE of centerline and 700 ft from end of Rnwy 04R 1. Same 2. Located 900 ft SE of center- line and 700 ft from end of Rnwy 04R	Same Same Same	Same Same Same	Same Same Same	
11	Feb 76	1. Same 2. Same	Same Same	Same Same	Same Same	
12	Oct 78	1. Located 600 ft SE of center- line and 1800 ft from end of Rnwy 22L. 2. Located 600 ft SE of centerline and 1800 ft from end Rnwy 04R.	AN-3MQ	RO-362	Same	
13	Apr 82	1. Same 2. Same	Same	Same	Same	

## PART A

## WEATHER CONDITIONS

This summary is a percentage frequency occurrence of various atmospheric phenomena and obstructions to vision, derived from hourly observations, and is presented in two tables as follows:

1. By month and annual, all hours and years combined.
2. By month, all years combined, by standard 3-hour groups.

A percent value of ".0" in these tables indicates less than .05 percent, which is usually only one occurrence. The various phenomena included in each category on the forms are listed below:

Thunderstorms - All reported occurrences of thunderstorm, tornado, and waterspout.

Rain and/or drizzle - All liquid precipitation, falling to the ground, not freezing.

Freezing rain and/or freezing drizzle (glaze) - Precipitation falling in liquid form, but freezing on contact with an unheated surface.

Snow and/or sleet (ice pellets) - Included are snow, snow pellets, sleet, snow grains, ice crystals, and ice pellets from Jan 68 and later. (Snow pellets also known as soft hail)

Hail - Occurrences of hail and small hail are included.

Percentage of observations with precipitation - Included in this category are the observations when one or more of the above phenomena occurred. Since more than one type of precipitation may be reported in the same observation, the sums of the individual categories may exceed the percentages of the observations with precip.

Fog - Included are fog, ice fog, and ground fog.

Smoke and/or haze - Occurrences of smoke, haze, or combinations of smoke and haze are included.

Blowing snow - Occurrences of blowing snow (also drifting snow when reported from non-WBAN sources).

Dust and/or sand - Included are blowing dust, blowing sand, and dust.

Continued on Reverse

Blowing spray - This item if reported, is not shown in a separate category on this form but is included in the computation Percentage of Observations with Obstructions to Vision, below.

Percentage of observations with obstructions to vision - Included in this category are the observations when one or more of the above obstructions to vision occurred. Since more than one type of obstruction may be reported in the same observation, the sums of the individual categories may exceed the percentage total columns. Also, although precipitation may reduce visibility, it is not considered an obstruction to vision for purposes of this summary; therefore, the percentage total of obstructions to vision need not reflect the total observations with reduced visibility.



U.S. AIR FORCE  
 USAFETAC  
 AIR WEATHER SERVICE/MAC

# WEATHER CONDITIONS

1335 KATHER AFB CA

73-81

JAN

STATION

STATION NAME

YEARS

MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE OF WEATHER  
 CONDITIONS FROM HOURLY OBSERVATIONS

MONTH	HOURS (L.S.T.)	THUNDER- STORMS	RAIN AND/OR DRIZZLE	FREEZING RAIN & /OR DRIZZLE	SNOW AND/OR SLEET	HAIL	% OF OBS WITH PRECIP.	FOG	SMOKE AND/OR HAZE	BLOWING SNOW	DUST AND/OR SAND	% OF OBS WITH OBST TO VISION	TOTAL NO. OF OBS.
JAN	0-23		10.3				10.3	41.0	10.9			45.5	837
	0-23		10.9				10.9	42.4	7.5			45.6	837
	0-23		10.3				10.3	47.7	9.0			50.9	837
	0-11	.2	11.0				11.0	41.0	18.0			52.6	837
	12-23		10.7				10.7	30.1	20.1			40.8	837
	10-23		10.7				10.7	25.1	20.1			47.5	835
	10-2	.2	10.7				10.7	28.0	20.0			42.4	837
	1-23		10.3				10.3	36.0	16.0			42.8	837
TOTALS		.1	10.2				10.2	36.6	17.0			47.1	6694

JOINT CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/AFAC

## WEATHER CONDITIONS

STATION WEATHER APP CA

73-81

FEB

STATION

STATION NAME

YEARS

MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE OF WEATHER  
CONDITIONS FROM HOURLY OBSERVATIONS

MONTH	HOURS (L.S.T.)	THUNDER- STORMS	RAIN AND OR DRIZZLE	FREEZING RAIN & /OR DRIZZLE	SNOW AND/OR SLEET	HAIL	% OF OBS WITH PRECIP.	FOG	SMOKE AND/OR HAZE	BLOWING SNOW	DUST AND/OR SAND	% OF OBS WITH OBST TO VISION	TOTAL NO. OF OBS
JAN	0-23	.1	11.7		.1		11.8	13.7	8.3			13.7	761
	1-11		11.4				11.4	15.2	6.2			16.2	762
	12-23		12.3				12.3	23.9	6.4			26.5	762
	0-11		11.6		.1		13.0	14.8	17.2			27.0	762
	12-23	.3	11.4				11.4	6.4	19.2			24.0	762
	12-23	.3	11.0				11.9	5.8	16.3			21.4	762
	12-23		11.1				10.1	5.2	14.8			18.2	762
	1-23		11.0				10.0	7.6	11.2			16.3	762
TOTALS		.1	11.5		.1		11.5	11.6	12.3			21.4	6795

U.S. AIR CLIMATOLOGY BRANCH  
 USAPETAC  
 AIR WEATHER SERVICE/MAC

## WEATHER CONDITIONS

12 835 FATHER AFB CA

73-81

MAR

STATION

STATION NAME

YEARS

MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE OF WEATHER  
CONDITIONS FROM HOURLY OBSERVATIONS

MONTH	HOURS (LST)	THUNDER- STORMS	RAIN AND OR DRIZZLE	FREEZING RAIN & /OR DRIZZLE	SNOW AND/OR SLEET	HAIL	% OF OBS WITH PRECIP.	FOG	SMOKE AND/OR HAZE	BLOWING SNOW	DUST AND/OR SAND	% OF OBS WITH OBST TO VISION	TOTAL NO OF OBS
	1-12		0.7				9.7	4.5	3.5			6.7	837
	13-24		2.8				9.8	7.4	3.0			8.6	837
	25-36		1.3				10.2	15.9	7.2			19.1	837
	37-48		10.2				10.2	8.4	10.9			17.0	837
	49-60	0.1	0.6				6.5	3.6	9.7			12.7	837
	61-72	0.5	11.2				11.2	3.7	5.0			9.7	837
	73-84	0.1	0.8				9.8	3.2	3.1			6.3	837
	85-96		9.2				9.2	2.6	3.0			5.3	837
TOTALS		0.1	2.6				9.8	6.2	5.8			10.6	6696

CLIMATE CLIMATOLOGY BRANCH  
USAFETAC  
AF WEATHER SERVICE /MAC

## WEATHER CONDITIONS

70355  
STATION

FATHER AFB CA

STATION NAME

73-81

YEARS

APR  
MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE OF WEATHER  
CONDITIONS FROM HOURLY OBSERVATIONS

MONTH	HOURS (L.S.T.)	THUNDER- STORMS	RAIN AND/OR DRIZZLE	FREEZING RAIN & /OR DRIZZLE	SNOW AND/OR SLEET	HAIL	% OF OBS WITH PRECIP.	FOG	SMOKE AND/OR HAZE	BLOWING SNOW	DUST AND/OR SAND	% OF OBS WITH OBST TO VISION	TOTAL NO. OF OBS
APR	0-02		4.3				4.3	.6	.4			1.3	310
	03-05		5.6				5.6	2.7	.6			3.3	810
	06-10		4.3				4.3	5.4	4.4			8.0	809
	09-11		4.2				4.2	1.7	3.8			5.2	810
	12-14	.2	5.6				5.6	1.5	3.2			4.7	810
	15-17	.4	5.6			.1	5.6	1.1	2.3			3.1	909
	18-20	.1	3.5				3.5	.5	.9			1.2	910
	21-23		3.7				3.7	.1				.1	810
TOTALS		.1	4.6			.1	4.6	1.7	1.9			3.3	6478

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
WEATHER SERVICE/MAC

## WEATHER CONDITIONS

73-61

WATHER AFB CA

73-61

MAY

STATION

STATION NAME

YEARS

MONTH

### PERCENTAGE FREQUENCY OF OCCURRENCE OF WEATHER CONDITIONS FROM HOURLY OBSERVATIONS

MONTH	HOURS (L.S.T.)	THUNDER- STORMS	RAIN AND/OR DRIZZLE	FREEZING RAIN & /OR DRIZZLE	SNOW AND/OR SLEET	HAIL	% OF OBS WITH PRECIP.	FOG	SMOKE AND/OR HAZE	BLOWING SNOW	DUST AND/OR SAND	% OF OBS WITH OBST TO VISION	TOTAL NO. OF OBS.
MAY	0-23		1.2				1.2		.2		.4	.6	837
	02-15	.1	1.2				1.2	1.2	2.2		.1	2.9	837
	16-23		1.2				1.2	1.4	5.6			6.2	837
	0-11		1.2				1.2	.1	1.1			1.2	837
	12-14	.2	1.4				1.4	.1	1.4			1.6	837
	15-17	.1	1.4				1.4	.1	1.1			1.2	837
	18-20	.1	2.4				2.4		.5			.5	837
	21-23		.5				.5				.1	.1	837
TOTALS		.1	1.4				1.4	.4	1.5		.1	1.8	6696

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AT WEATHER SERVICE/MAC

## WEATHER CONDITIONS

73-81  
STATION

MATHER AFB CA  
STATION NAME

73-81  
YEARS

JUN  
MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE OF WEATHER  
CONDITIONS FROM HOURLY OBSERVATIONS

MONTH	HOURS (LST.)	THUNDER- STORMS	RAIN AND/OR DRIZZLE	FREEZING RAIN & /OR DRIZZLE	SNOW AND/OR SLEET	HAIL	% OF OBS WITH PRECIP.	FOG	SMOKE AND/OR HAZE	BLOWING SNOW	DUST AND/OR SAND	% OF OBS WITH OBST TO VISION	TOTAL NO OF OBS
JUN	0-7	.2	.2				.2		.5			.5	810
	8-15	.1	.2				.9	.6	1.6			1.9	810
	16-23		.6				.6	.4	3.9		.1	4.1	810
	24-31		.2				.2		.9		.4	1.2	810
	1-10		.1				.1		.4		.1	.5	810
	11-20		.1				.1		.4			.4	810
	21-30		.1				.1						809
	31-31	.2	.1				.1						810
TOTALS		.1	.3				.3	.1	1.0		.1	1.1	6479

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AF WEATHER SERVICE/MAC

## WEATHER CONDITIONS

835 MATHER AFB CA

73-81

JUL

STATION

STATION NAME

YEARS

MONTH

### PERCENTAGE FREQUENCY OF OCCURRENCE OF WEATHER CONDITIONS FROM HOURLY OBSERVATIONS

MONTH	HOURS (LST.)	THUNDER- STORMS	RAIN AND/OR DRIZZLE	FREEZING RAIN & /OR DRIZZLE	SNOW AND/OR SLEET	HAIL	% OF OBS WITH PRECIP.	FOG	SMOKE AND/OR HAZE	BLOWING SNOW	DUST AND/OR SAND	% OF OBS WITH OBST TO VISION	TOTAL NO. OF OBS.
JUL	7-20		.7				.7	.1				.1	837
	21-31	.1	.8				.8	.2	.2			.5	837
	8-20		1.0				1.0	.8	3.3			3.5	837
	9-21		1.2				1.2	.1	.7			.8	837
	12-14		1.1				1.1	.2	.6			.8	836
	15-17		.8				.8		1.2			1.2	836
	18-21		.7				.7	.1	.5			.6	837
	1-23	.1	.8				.8	.1				.1	837
TOTALS		.2	.6				.9	.2	.8			1.0	6694

LOCAL CLIMATOLOGY BRANCH  
METAC  
4 WEATHER SERVICE/HAC

# WEATHER CONDITIONS

724835 MATHER AFB CA

73-81

AUG

STATION

STATION NAME

YEARS

MONTH

## PERCENTAGE FREQUENCY OF OCCURRENCE OF WEATHER CONDITIONS FROM HOURLY OBSERVATIONS

MONTH	HOURS (LST.)	THUNDER- STORMS	RAIN AND OR DRIZZLE	FREEZING RAIN & /OR DRIZZLE	SNOW AND/OR SLEET	HAIR	% OF OBS WITH PRECIP.	FOG	SMOKE AND/OR HAZE	BLOWING SNOW	DUST AND/OR SAND	% OF OBS WITH OBST TO VISION	TOTAL NO OF OBS
AUG	1-24		1.1				1.1						837
	25-30	.2	1.3				1.3	1.1	1.6			2.2	837
	1-78	.4	1.7				1.0	3.7	12.3			13.7	837
	9-11		.5				.5		3.8			3.8	837
	12-14		1.0				1.0		2.5			2.5	837
	15-17		.6				.6		2.9			2.9	837
	18-20		.2				.2		1.0			1.0	837
	21-23		.4				.4		.5			.5	837
TOTALS		.1	.8				.6	.6	3.1			3.2	6696



SIGNAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

## WEATHER CONDITIONS

744835  
STATION

MATHER AFB CA  
STATION NAME

73-51  
YEARS

SEP  
MONTH

### PERCENTAGE FREQUENCY OF OCCURRENCE OF WEATHER CONDITIONS FROM HOURLY OBSERVATIONS

MONTH	HOURS (L.S.T.)	THUNDER- STORMS	RAIN AND/OR DRIZZLE	FREEZING RAIN & /OR DRIZZLE	SNOW AND/OR SLEET	HAIL	% OF OBS WITH PRECIP.	FOG	SMOKE AND/OR HAZE	BLOWING SNOW	DUST AND/OR SAND	% OF OBS WITH OBST TO VISION	TOTAL NO OF OBS.
1-5	0-5		1.2				1.2	.1	.4			.4	809
	6-10		.9				.9	1.2	1.4			1.5	810
	11-15		.6				.6	5.4	12.5			14.1	810
	16-20		1.1				1.1	.5	5.2			5.4	810
	21-24		1.5				1.5	.4	2.0			2.3	809
	25-29	.5	2.1				2.1	.5	1.5		.1	2.1	809
	30-31	.2	1.2				1.2	.2	2.6		.1	2.8	810
	1-23	.1	1.7				1.7		1.5			1.5	810
TOTALS		.1	1.3				1.3	1.0	3.4		.0	3.8	6477

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AF WEATHER SERVICE/MAC

## WEATHER CONDITIONS

08 835 MATHER AFB CA 73-81 OCT  
STATION STATION NAME YEARS MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE OF WEATHER  
CONDITIONS FROM HOURLY OBSERVATIONS

MONTH	HOURS (LST)	THUNDER- STORMS	RAIN AND/OR DRIZZLE	FREEZING RAIN & /OR DRIZZLE	SNOW AND/OR SLEET	HAIL	% OF OBS WITH PRECIP.	FOG	SMOKE AND/OR HAZE	BLOWING SNOW	DUST AND/OR SAND	% OF OBS WITH OBST TO VISION	TOTAL NO. OF OBS
01	01-07	.1	4.3				4.3	3.0	5.1			7.3	837
	08-14		3.3				3.3	6.2	7.3			10.9	837
	15-21		2.7				2.7	15.4	19.2			26.0	837
	22-28		2.6				2.8	4.6	19.0		.2	21.3	835
	12-14	.1	2.5				2.5	1.0	14.9		.2	15.7	837
	15-17	.4	2.5				2.5	.5	14.9			15.4	837
	18-20	.2	3.1				3.1	.6	10.3		.2	10.9	837
	21-23	.1	4.5				4.5	1.6	6.6			7.8	837
TOTALS		.1	3.2				3.2	4.1	12.1		.1	14.4	6694

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
700 WEATHER SERVICE/MAC

## WEATHER CONDITIONS

835 MATHER AFB CA 73-81 NOV  
STATION STATION NAME YEARS MONTH

### PERCENTAGE FREQUENCY OF OCCURRENCE OF WEATHER CONDITIONS FROM HOURLY OBSERVATIONS

MONTH	HOURS (L.S.T.)	THUNDER- STORMS	RAIN AND/OR DRIZZLE	FREEZING RAIN & /OR DRIZZLE	SNOW AND/OR SLEET	HAIL	% OF OBS WITH PRECIP.	FOG	SMOKE AND/OR HAZE	BLOWING SNOW	DUST AND/OR SAND	% OF OBS WITH OBST TO VISION	TOTAL NO. OF OBS.
NOV	0-00		7.1				7.1	20.1	14.7			29.9	807
	03-05		5.9				5.9	23.7	9.2			28.7	807
	6-08		5.7				6.7	33.7	14.3			39.0	807
	9-11		5.3				6.3	22.6	26.7			44.6	807
	12-14		7.0				7.9	10.0	33.0			40.3	807
	15-17	.2	5.6				8.6	8.1	30.2		.4	36.7	807
	18-20	.1	9.7				9.7	10.2	24.0		.1	32.0	807
	21-23		7.7				7.7	14.9	20.6			30.0	807
TOTALS		.3	7.5				7.5	17.9	21.8		.1	35.2	6456

CLIMATOLOGY BRANCH  
 USAFETAC  
 AIR WEATHER SERVICE/MAC

## WEATHER CONDITIONS

12-835 MATHER AFB CA 73-81 DEC  
 STATION STATION NAME YEARS MONTH

### PERCENTAGE FREQUENCY OF OCCURRENCE OF WEATHER CONDITIONS FROM HOURLY OBSERVATIONS

MONTH	HOURS (L.S.T.)	THUNDER- STORMS	RAIN AND/OR DRIZZLE	FREEZING RAIN & /OR DRIZZLE	SNOW AND/OR SLEET	HAIL	% OF OBS WITH PRECIP.	FOG	SMOKE AND/OR HAZE	BLOWING SNOW	DUST AND/OR SAND	% OF OBS WITH OBST TO VISION	TOTAL NO. OF OBS.
DEC	0-22		0.7				9.7	46.1	16.8		.4	55.9	837
	23-25		11.6				11.6	51.5	12.5		.4	58.2	837
	26-28		11.2				11.2	58.5	15.8		.4	63.6	837
	29-31		5.3				5.3	49.3	29.0		.4	67.1	837
	12-14		7.4				7.4	30.0	40.0		.4	61.5	837
	15-17		8.5				8.5	23.7	45.7		.2	59.3	835
	18-20		8.4				8.4	28.9	34.7		.1	55.2	833
	21-23		8.9				8.9	27.9	26.7			55.9	834
TOTALS			0.4				9.4	40.7	27.6		.3	59.6	6687

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AF WEATHER SERVICE/MAC

## WEATHER CONDITIONS

FORM 35 MATHER AFB CA 73-61 ALL  
STATION STATION NAME YEARS MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE OF WEATHER  
CONDITIONS FROM HOURLY OBSERVATIONS

MONTH	HOURS (LST)	THUNDER- STORMS	RAIN AND/OR DRIZZLE	FREEZING RAIN &/OR DRIZZLE	SNOW AND/OR SLEET	HAIL	% OF OBS WITH PRECIP.	FOG	SMOKE AND/OR HAZE	BLOWING SNOW	DUST AND/OR SAND	% OF OBS WITH OBST TO VISION	TOTAL NO. OF OBS.
JAN	ALL	.1	13.2				13.2	36.6	17.0			47.1	6694
FEB		.1	11.0		.0		11.5	11.6	12.8			21.4	6095
MAR		.1	9.8				9.8	6.2	5.8			10.6	6696
APR		.1	4.4			.0	4.6	1.7	1.9			3.3	6478
MAY		.1	1.4				1.4	.4	1.5		.1	1.8	6696
JUN		.1	.3				.3	.1	1.0		.1	1.1	6479
JUL		.0	.9				.9	.2	.8			1.0	6694
AUG		.1	.5				.6	.6	3.1			3.2	6696
SEP		.1	1.3				1.3	1.0	3.4		.0	3.8	6477
OCT		.1	3.2				3.2	4.1	12.2		.1	14.4	6694
NOV		.0	7.5				7.5	17.9	21.8		.1	35.2	6456
DEC			9.4				9.4	40.7	27.6		.3	59.6	6687
TOTALS		.1	5.3		.0	.0	5.3	10.1	9.1		.1	16.9	78842

## PART A

## ATMOSPHERIC PHENOMENA

This summary is a presentation of the percentage of days with occurrence of various atmospheric phenomena. These data are obtained from all recorded information on the reporting forms or from hourly data and combined into a daily observation.

The descriptions of the phenomena in the Weather Conditions Summary above also apply for the categories summarized in these daily tabulations. However, it should be noted that in this summary the columns headed "% OF OBS WITH PRECIP" and "% OF OBS WITH OBST TO VISION" show the percentage of days rather than the percentage of observations. Since more than one type of precipitation or more than one type of obstruction may occur in the same daily observation, the sum of the values in the individual categories may differ from the total columns.

A percent value of ".0" in the table indicates less than .05 percent, which is usually only one occurrence.

This presentation is by month with annual totals, and is prepared with all years combined.

- NOTES: (1) A day with rain and/or drizzle was not separately reported in the WEAN data prior to year 1949. Therefore, percentages in this column are restricted to the period Jan 1949 and later.
- (2) A day with freezing rain and/or freezing drizzle is also properly reported as a day with rain and/or drizzle.
- (3) A day with dust and/or sand is included in this summary only when visibility is reduced to less than  $\frac{5}{8}$  mile.

LOCAL CLIMATOLOGY BRANCH  
USAFETAC  
AF WEATHER SERVICE/MAC

XX **WEATHER CONDITIONS** XXXXXXXXXXXXXXXXXXXXXXXXXXXX  
ATMOSPHERIC PHENOMENA

170835 KATHCP AFB CA 46-51 ALL  
STATION STATION NAME YEARS MONTH

PERCENTAGE OF DAYS WITH VARIOUS ATMOSPHERIC PHENOMENA  
FROM DAILY OBSERVATIONS

MONTH	HOURS (LST.)	THUNDER- STORMS	RAIN AND/OR DRIZZLE	FREEZING RAIN & /OR DRIZZLE	SNOW AND/OR SLEET	HAIL	% OF OBS WITH PRECIP.	FOG	SMOKE AND/OR HAZE	BLOWING SNOW	DUST AND/OR SAND	% OF OBS WITH OBST TO VISION	TOTAL NO. OF OBS.
JAN	DAILY	1.1	49.1	.1	.6	.6	47.3	63.3	44.4			71.2	1085
FEB		2.1	49.8		.2	1.0	39.5	42.3	37.5		.1	51.8	989
MAR		2.4	34.5		.1	1.3	34.5	21.6	16.0			27.3	1085
APR		2.6	24.1		.1	1.3	24.0	11.7	9.8			16.8	1050
MAY		1.6	13.6			.1	13.5	5.1	7.2			10.2	1085
JUN		1.3	7.2				6.8	1.9	4.5		.1	5.5	1079
JUL		.8	3.2			.1	3.0	.8	5.9			6.2	1116
AUG		.5	4.7				4.3	3.0	10.9			11.7	1115
SEP		1.6	6.5			.1	7.9	6.6	16.9		.1	19.6	1080
OCT		1.3	15.4			.1	15.2	21.0	33.8		.1	41.7	1116
NOV		1.4	33.1			.2	31.7	50.0	53.8			69.9	1080
DEC		.8	45.1	.2	.9	.3	43.5	64.2	53.2		.2	75.3	1116
TOTALS		1.6	23.3	.1	.2	.4	22.6	24.3	24.4		.0	33.9	12996

U S AIR FORCE  
ENVIRONMENTAL TECHNICAL  
APPLICATIONS CENTER

## PART B PRECIPITATION, SNOWFALL & SNOW DEPTH

This part of the Uniform Summary consists of eight summaries derived from daily observations as follows:

1. The first set presents, in three tables, the percentage frequency of various daily amounts of PRECIPITATION, SNOWFALL, and SNOW DEPTH. The daily amount summary is prepared by month and annual, all years combined, and includes percent of days with measurable amounts; percent of days having none, traces, and given amounts; and means, greatest and least monthly amounts. (The last three statistics are omitted from the snow depth summary because of their doubtful and limited value.) A total count of valid observations is given for months and annual. Stations are included in which a portion or all of the period may contain months with missing days. This will be noted on the summary pages. A percent value of ".0" in these daily amount tables indicates less than .05 percent which is usually only one occurrence.
2. The second set of three tables presents the extreme daily amounts, by individual year and month, of PRECIPITATION, SNOWFALL, and SNOW DEPTH for the entire period of record available. Also provided are the means and standard deviations for each month and annual (all months) and the total valid observation count. An asterisk (\*) is printed in any year-month block when the extreme value is based on an incomplete month (at least one day missing for the month). When a month has valid observations reported but no occurrences, zeros are given in the tables as follows:

EXTREME DAILY PRECIPITATION	"00"	equals none for the month (hundredths)
EXTREME DAILY SNOWFALL	"0"	equals none for the month (tenths)
EXTREME DAILY SNOW DEPTH	"0"	equals none for the month (whole inches)

3. The third set of two tables provides the total monthly amounts of PRECIPITATION and SNOWFALL for each year-month and annual. Also prepared are the means, standard deviations, and total number of valid observations for each month and annual (all months). An asterisk (\*) is printed in each data block if one or more days are missing for the month. No occurrences for a month are indicated in the same manner as in the extreme tables above. If a trace becomes the extreme or monthly total in any of these tables it is printed as "TRACE."

Continued on Reverse Side

Values for means and standard deviations do not include measurements from incomplete months.



- NOTES: (1) The above studies may also be prepared for stations operating for less than full months for portions or all of the period of record. This may include stations operating 5 or 6 days a week and those with only random days missing. An asterisk (\*) in the data blocks will give an indication that a month is incomplete. Please refer to Station History at front of book and observation counts in each summary to evaluate the amounts of data missing.
- (2) Hail was included in snowfall occurrences in the summary of day observations prior to Jan 56, but these occurrences have been removed from snowfall category and counted as Hail in these summaries.
- (3) Snow Depth was recorded and punched at various hours during the period available from U. S. operated stations. The hours used by each service for each period are as follows:

Air Force Stations:

Beginning thru 1945	at 0800LST
Jan 46-May 57	at 1230GMT
Jun 57-present	at 1200GMT

U. S. Navy and National Weather Service (USWB)

Beginning thru Jun 52	at 0030GMT
Jul 52-May 57	at 1230GMT
Jun 57-present	at 1200GMT



GLOBAL CLIMATOLOGY BRANCH  
USAF ETAC  
AF WEATHER SERVICE/MAC

# EXTREME VALUES

PRECIPITATION

(FROM DAILY OBSERVATIONS)

724835 MATHER AFB CA  
STATION STATION NAME

41-21

YEARS

24 HOUR AMOUNTS IN INCHES

MONTH YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ALL MONTHS
41									.00	.48	.53	.93	
42	1.22	.41	1.16	.80	.30	.00	.00	.00	.07	.12	.50	.48	1.22
43	1.51	.32	1.92	.99	.11	.15	TRACE	.00	.00	.54	.26	.82	1.92
44	.61	1.83	.41	.47	.45	.04	.00	.00	.00	.94	.75	.50	1.83
45	.74	.77	.55	.15	.23	.34	TRACE	TRACE	.00	1.10	.66	.86	1.10
46	.41					.31	TRACE	.00	.27	.36	1.17	.36	
47	.26	1.26	1.31	.11	.11	.19	.00	.00	TRACE	.90	1.79	.42	1.79
48	.31	.65	.31	.32	1.05	TRACE	.00	.00	TRACE	.67	.34	1.00	1.05
49	1.27	.55	1.14	TRACE	.13	.00	TRACE	TRACE	TRACE	.08	.38	.29	1.27
50	.61	.96	.33	.52	.22	TRACE	TRACE	TRACE	.82	1.34	2.28	1.44	2.28
51	.59	.73	.41	.85	.88	.00	.00	.00	TRACE	.71	.97	1.19	1.19
52	1.26	.56	1.23	.69	TRACE	.16	TRACE	.00	.03	TRACE	1.07	1.60	1.60
53	.58	.66	.65	1.52	.32	.50	.00	.07	.06	.32	.73	1.09	1.52
54	.96	.88	1.12	1.12	.23	TRACE	.00	.24	.00	.02	.80	2.18	2.18
55	.59	.68	.10	.56	.29	TRACE	.00	.00	.29	.42	.44	1.33	1.33
56	1.55	.78	.04	.50	.83	TRACE	TRACE	.00	.63	.50	.02	.19	1.55
57	.97	.61	.78	.68	.83	TRACE	.00	.00	.31	.49	.28	1.03	1.03
58	.57	1.06	.90	1.52	.68	.33	TRACE	TRACE	.18	.18	.10	.44	1.62
59	1.87	.89	.32	4.34	TRACE	.00	TRACE	.01	1.87	.00	TRACE	.55	4.34
60	.94	.97	.55	.41	.38	.00	TRACE	.00	.08	TRACE	1.02	.67	1.02
61	.93	.31	1.05	.38	.37	TRACE	TRACE	TRACE	.13	.06	1.55	.69	1.55
62	1.05	2.98	.81	.43	.66	TRACE	.01	.09	.01	4.36	.28	.97	4.36
63	1.79	.87	1.98	1.41	.98	TRACE	.00	TRACE	.26	.82	1.44	.13	1.88
64	2.42	.29	.39	.28	.28	.35	TRACE	.18	.00	.96	.94	2.17	2.42
65	.66	.32	.87	.97	.01	TRACE	TRACE	.56	TRACE	.31	.66	1.16	1.16
66	.86	.35	.39	.20	.26	.02	.06	.01	.01	.00	1.25	.74	1.25
67	2.64	.58	.80	.85	.12	.33	.56	TRACE	TRACE	.11	.32	.38	2.64
68	1.57	.53	.41	.36	.76	.14	TRACE	.14	TRACE	.30	1.21	.65	1.57
69	2.16	1.56	.33	1.13	.02	.79	.06	.00	TRACE	.68	1.02	1.05	2.16
70	1.53	.56	.93	.12	TRACE	.65	.00	.00	TRACE	.42	2.61	.73	2.61
MEAN													
S.D.													
TOTAL OBS													

NOTE \* (BASED ON LESS THAN FULL MONTHS)

USAF ETAC FORM JUL 64 0-88-5 (OLA)

**0-00-5 (OL A)**

GLOBAL CLIMATOLOGY BRANCH  
USAF ETAC  
AIR WEATHER SERVICE/MAC

**EXTREME VALUES**  
MONTHLY PRECIPITATION

(FROM DAILY OBSERVATIONS)

72-835 MATHER AFB CA STATION NAME

41-81 YEARS

TOTAL MONTHLY PRECIPITATION IN INCHES

MONTH YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ALL MONTHS
41									.00	.56	1.19	4.16	
42	4.26	1.99	2.41	4.31	.66	.00	.00	.00	.07	.20	1.65	1.94	17.49
43	3.36	1.19	3.47	1.54	.11	.20	TRACE	.00	.00	.89	.56	2.35	15.57
44	2.32	6.73	.6	1.48	.79	.04	.00	.00	.00	1.69	2.48	1.62	17.75
45	1.14	2.22	2.20	.15	.42	.34	TRACE	TRACE	.00	1.58	1.89	4.80	14.82
46	.47					.00	TRACE	.00	.27	.50	2.13	1.57	
47	.35	2.14	3.87	.15	.16	.20	.00	.00	TRACE	2.32	2.32	.67	12.18
48	.81	1.74	2.79	1.89	2.06	TRACE	.00	.00	TRACE	.67	.90	3.90	14.76
49	1.54	1.31	3.74	TRACE	.23	.00	TRACE	TRACE	TRACE	.08	.67	1.19	10.06
50	3.79	1.91	1.79	1.17	.41	TRACE	TRACE	TRACE	.82	2.92	4.57	5.87	22.55
51	2.84	1.78	.98	.85	1.08	.00	.00	.00	TRACE	1.12	2.49	4.09	15.23
52	7.04	1.49	3.20	1.37	TRACE	.35	TRACE	.00	.03	TRACE	2.53	6.87	22.88
53	3.23	.73	1.58	3.05	.86	.65	.00	.07	.06	.39	2.24	1.12	13.98
54	2.61	2.05	3.81	1.71	.23	TRACE	.00	.26	.00	.04	2.72	5.65	19.08
55	2.78	1.64	.14	2.18	.36	TRACE	.00	.00	.29	.61	1.17	7.31	16.48
56	6.73	2.21	.05	1.30	1.38	TRACE	TRACE	.00	.63	1.08	.02	.25	13.65
57	1.9	3.40	2.83	1.30	1.90	TRACE	.00	.00	.68	1.00	.36	3.07	16.44
58	4.00	6.22	5.89	3.74	.73	.53	TRACE	TRACE	.18	.18	.18	.68	22.33
59	6.18	4.34	.93	4.40	TRACE	.00	TRACE	.01	2.11	.00	TRACE	1.22	19.09
60	4.59	3.71	1.57	.88	.42	.00	TRACE	.00	.08	TRACE	3.86	1.18	15.79
61	3.20	.81	3.71	.94	.55	TRACE	TRACE	TRACE	.13	.12	3.25	1.43	14.14
62	1.19	9.00	2.50	.53	.74	TRACE	.01	.11	.01	8.66	.31	1.97	25.03
63	3.96	2.40	4.57	4.74	1.24	TRACE	.00	TRACE	.26	1.82	5.91	.38	25.28
64	4.79	.68	1.45	.28	.48	.63	TRACE	.16	.00	1.60	3.72	7.96	21.77
65	3.47	.71	1.84	3.54	.01	TRACE	TRACE	.57	TRACE	.31	2.73	3.90	17.08
66	1.69	1.56	.28	.40	.27	.02	.06	.01	.02	.00	6.26	2.55	13.12
67	6.58	.58	3.24	3.90	.23	.62	.56	TRACE	TRACE	.21	1.51	1.03	18.46
68	3.43	2.40	2.00	.36	.80	.15	TRACE	.14	TRACE	.60	3.49	3.21	16.58
69	11.57	8.39	1.18	1.56	.02	.80	.06	.00	TRACE	.72	1.13	4.06	29.49
70	8.12	1.64	2.17	.17	TRACE	.78	.00	.00	TRACE	1.14	7.79	4.11	25.82
MEAN													
S.D.													
TOTAL OBS													

NOTE \* (BASED ON LESS THAN FULL MONTHS)

USAF ETAC FORM JUL 64 0-88-5 (OL A)

XXXXXXXXXXXXXXXXXXXX  
 EXTREME VALUES  
 XXXXXXXXXXXXXXXXXXXX  
 MONTHLY PRECIPITATION

(FROM DAILY OBSERVATIONS)

41-81

YEARS

[illegible]

NOTE \* (BASED ON LESS THAN FULL MONTHS)

USAF ETAC      FORM      0-80-5 (OL A)  
JUL 64

PERCENTAGE FREQUENCY OF  
SNOWFALL  
(FROM DAILY OBSERVATIONS)

YEARS

AMOUNTS (INCHES)														PERCENT OF DAYS WITH MEASUR- ABLE AMTS	TOTAL NO OF OBS.	MONTHLY AMOUNTS (INCHES)		
PRECIP	NONE	TRACE	01	02-05	06-10	11-25	26-50	51-100	101-250	251-500	501-1000	1001-2000	OVER 2000			MEAN	GREATEST	LEAST
SNOWFALL	NONE	TRACE	01-0.4	0.5-1.4	1.5-2.4	2.5-3.4	3.5-4.4	4.5-6.4	6.5-10.4	10.5-15.4	15.5-25.4	25.5-50.4	OVER 50.4					
SNOW DEPTH	NONE	TRACE	1	2	3	4-6	7-12	13-24	25-36	37-48	49-60	61-120	OVER 120					
JAN	9.7	.6												1085	TRACE	TRACE		
FEB	9.2	.1												989	TRACE	TRACE		
MAR	9.7	.1												1085	TRACE	TRACE		
APR	10.1													1050	.0	.0		
MAY	10.0													1085	.0	.0		
JUN	9.0													1079	.0	.0		
JUL	9.0													1116	.0	.0		
AUG	10.0													1116	.0	.0		
SEP	10.0													1080	.0	.0		
OCT	10.2													1116	.0	.0		
NOV	10.0													1080	.0	.0		
DEC	9.0	.7	.1		.1									.2	1116	.1		
ANNUAL	9.2	.1	.1		.1									.2	12997	.1		

CLIPAL CLIMATOLOGY BRANCH  
USAF ETAC  
AD WEATHER SERVICE/MAC

# EXTREME VALUES

SNOWFALL

(FROM DAILY OBSERVATIONS)

70-835 MATHER AFB CA  
STATION STATION NAME

46-81

YEARS

## 24 HOUR AMOUNTS IN INCHES

YEAR	MONTH	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ALL MONTHS
45							.1	.0	.0	.0	.0	.0	.0	
47		.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
48		.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49		.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
51		.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
52		.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
53		.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
54		.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
55		.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
56		.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
57		.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
58		.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
59		.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61		.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
62		TRACE	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	TRACE
63		.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
64		TRACE	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	TRACE
65		.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
66		.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
67		.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
68		.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
69		.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
70		.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71		.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
72		TRACE	.0	.0	.0	.0*	.0	.0	.0	.0	.0	.0	1.5	1.5
73		TRACE	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	TRACE
74		.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
75		.1	.0	TRACE	.0	.0	.0	.0	.0	.0	.0	.0	.0	TRACE
MEAN														
S.D.														
TOTAL OBS														

NOTE \* (BASED ON LESS THAN FULL MONTHS)

USAF ETAC FORM JUL 64 0-88-5 (OL A)



0-88-5 (OL A)

GLOBAL CLIMATOLOGY BRANCH  
USAF ETAC  
AF WEATHER SERVICE/MAC

**EXTREME VALUES**  
MONTHLY SNOWFALL

(FROM DAILY OBSERVATIONS)

72+835 MATHER AFB CA 46-21  
STATION STATION NAME YEARS

TOTAL MONTHLY SNOWFALL IN INCHES

MONTH YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ALL MONTHS
46						.0	.0	.0	.0	.0	.0	.0	
47	.	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
48	.	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49	.	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
50	.	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
51	.	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
52	.	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
53	.	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
54	.	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
55	.	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
56	.	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
57	.	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
58	.	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
59	.	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
60	.	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61	TRACE	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	TRACE
62	TRACE	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	TRACE
63	.	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
64	TRACE	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	TRACE
65	.	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
66	.	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
67	.	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	TRACE	TRACE
68	.	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	TRACE	TRACE
69	.	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
70	.	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	TRACE	TRACE
71	.	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
72	TRACE	.0	.0	.0	.0*	.0	.0	.0	.0	.0	.0	1.8	* 1.8
73	TRACE	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	TRACE
74	.	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
75	.	.0	TRACE	.0	.0	.0	.0	.0	.0	.0	.0	.0	TRACE
MEAN													
S.D.													
TOTAL OBS													

NOTE \* (BASED ON LESS THAN FULL MONTHS)

USAF ETAC FORM 0-88.5 (OLA)  
JUL 64

## EXTREME VALUES

(FROM DAILY OBSERVATIONS)

46-31

**YEARS**

[illegible]

NOTE \* (BASED ON LESS THAN FULL MONTHS)

**USAF ETAC**

FORM  
JUL 64

0-99-5 (DL A)

1 GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

## DAILY AMOUNTS

PERCENTAGE FREQUENCY OF  
SNOW DEPTH  
(FROM DAILY OBSERVATIONS)

7-835 WATHER AFE CA 41-61  
STATION STATION NAME YEARS

AMOUNTS (INCHES)														PERCENT OF DAYS WITH MEASUR- ABLE AMTS	TOTAL NO OF OBS.	MONTHLY AMOUNTS (INCHES)		
PRECIP	NONE	TRACE	01	02-05	06-10	11-25	26-50	51-100	101-250	251-500	501-1000	1001-2000	OVER 2000			MEAN	GREATEST	LEAST
SNOWFALL	NONE	TRACE	01 0 4	0 5 1 4	1 5 2 4	2 5 3 4	3 5 4 4	4 5 6 4	6 5 10 4	10 5 15 4	15 5 25 4	25 5 50 4	OVER 50 4					
SNOW DEPTH	NONE	TRACE	1	2	3	4 6	7 12	13 24	25 36	37 48	49 60	61 120	OVER 120					
JAN	0.														1240			
FEB	00.0														1102			
MAR	00.0														1209			
APR	0.0														1170			
MAY	0.0														1209			
JUN	00.0														1260			
JUL	0.0														1240			
AUG	0.0														1240			
SEP	0.0														1230			
OCT	0.0														1271			
NOV	00.0														1230			
DEC	09.0	.1													1271			
ANNUAL	0.0	.0													14612			

GENERAL CLIMATOLOGY BRANCH  
USAF ETAC  
AIR WEATHER SERVICE/MAC

## EXTREME VALUES

SNOW DEPTH

(FROM DAILY OBSERVATIONS)

72-835 MATHER AFB CA  
STATION STATION NAME

41-51  
YEARS

### DAILY SNOW DEPTH IN INCHES

MONTH YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ALL MONTHS
41													
42													
43													
44													
45													
46													
47													
48													
49													
50													
51													
52													
53													
54													
55													
56													
57													
58													
59													
60													
61													
62													
63													
64													
65													
66													
67													
68													
69													
70													
MEAN													
S. D.													
TOTAL OBS													

NOTE \* (BASED ON LESS THAN FULL MONTHS)

USAF ETAC FORM 0-88-5 (OL A)  
JUL 64

0-88-5 (OL A)

U S AIR FORCE  
ENVIRONMENTAL TECHNICAL  
APPLICATIONS CENTER

PART C

SURFACE WINDS

Presented in this part are various tabulations of surface winds as follows:

- \*1. Extreme Values - Peak Gusts: Derived from daily observations and presented by individual year and month for the entire period of record available. Speeds are presented in knots, while directions are given in 16 compass points from the beginning of record through June 1968, and in tens of degrees starting in July 1968. The extreme is selected and printed from available peak gusts for each year-month, however an asterisk (\*) is printed in the data block if less than 90% (3 or more missing observations) of the peak gusts are available for the month. An ALL MONTHS value is presented when every month of the year has valid observations. Means and standard deviations are also computed when four or more values are present for any column. A total raw count of valid observations is presented for each month and ALL MONTHS.

NOTE: According to Federal Meteorological Handbook No. 1 specifications (formerly Circular N), "peak gust data are recorded only at stations with continuous instantaneous wind-speed recorders."

- \*2. Bivariate percentage frequency tabulations: Derived from hourly observations, these tabulations are a percentage frequency of wind directions to 16 compass points and calm by wind speeds (knots) in increments of Beaufort classifications. Percentages are shown by both directions and speed, and in addition the mean wind speed is given for each direction.

A separate category is provided on the form for variable winds, which are reported in some data sources. In these data where light and variable winds are reported with no directions but with speeds given, the speeds will be summarized in the appropriate groups opposite the column headed VBRL.

- a. Three tables are prepared for ALL WEATHER surface winds, all years combined, by: (1) Annual - all hours combined, (2) By month - all hours combined, and (3) By month - by standard 3-hour groups.
- b. A separate annual table is also presented for surface winds meeting INSTRUMENT CLASS conditions as follows: Ceiling 200 through 1400 feet inclusive with visibility equal to or greater than 1/2 mile, and/or visibility 1/2 through 2-1/2 miles inclusive with ceiling equal to or greater than 200 feet.

NOTE: A percentage frequency of ".0" in these tables represents one or more occurrences amounting to less than ".05" percent.

\*Values for means and standard deviations do not include measurements from incomplete months.

FEDERAL CLIMATOLOGY BRANCH  
AFETAC  
AF WEATHER SERVICE/MAC

# EXTREME VALUES SURFACE WINDS

(FROM DAILY OBSERVATIONS)

700855 MATHER AFB CA  
STATION STATION NAME

46-51  
YEARS

## DAILY PEAK GUSTS IN KNOTS

MONTH	JAN.	FEB.	MAR.	APR.	MAY	JUN	JUL.	AUG.	SEP.	OCT.	NOV.	DEC.	ALL MONTHS
47												NNW 22	
47	N	35SSE	43SSW	41W	31NNW	37NNW	45SSW	30SSW	26SSW	30SSW	37NNW	33NNW	41 NNW 45
47	S	34NNW	43S	41SSE	51SE	35NNW	31SW	28SW	24SW	29NNW	25N	34S	43 SSE 51
47	NNW	53SSE	49SSE	45SW	22SW	35NNW	30SSW	23SW	27SW	29NNW	33S	47SSE	48 NNW 53
51	SSE	57SSE	47SW	33NW	31SE	31NNW	33S	27S	26S	21S	63SSE	52SSW	53 S 63
51	SSE	56SE	31SE	38SW	29NNW	31NNW	31SSW	28SW	27N	23W	28S	37SSW	56 SSE 56
52	SSE	57S	37S	62NNW	35SSW	36SSW	35WSW	31SW	24SW	30SW	19SSE	56SSE	64 SSE 64
53	S	51NNF	40SSE	51S	40WSW	32W	26W	21WSW	24WSW	25NNF	47SSE	55NNW	37 SSE 55
54	SSE	61S	59SSW	41SSE	30WSW	30WSW	31SW	24SW	24SW	29NNW	38SSE	42SSE	41 SSE 61
55	SSE	50S	42NNF	32SE	43NNE	43SW	27SSW	28SW	23NNW	33NNW	27SE	46SE	55 SF 55
56	SE	59SSE	51NNW	42SSE	37N	33SSW	30WSW	30WSW	22SW	19SSE	33NNE	35N	30 SF 59
57	SW	43SE	60S	28N	37S	34SSW	30SW	24SSW	23SSE	24SSE	40NNW	44SSE	35 SF 67
58	SE	40SE	55SE	50SE	33SSW	24S	23SW	25SW	17S	35NW	26N	32SE	30 SF 55
59	SE	56SE	58NNW	36SSE	28S	27SSW	23SSW	19SSW	23SSE	50N	49NNW	26N	31 SE 58
59	SSE	39SE	59NW	39SSE	37NNW	35NNW	30W	20S	26WSW	30N	36SSE	42S	49 SE 59
51	SSE	31NNW	33NNW	45WSW	32NW	29SW	24SW	25SW	21NNW	34NNW	35SSE	36SSE	30 NNW 45
57	SSE	57S	44S	51NNW	26WSW	28NNW	23WSW	21SW	22SSW	19SSE	43NNW	25SE	31 S 51
63	SSE	43NNW	27SSE	35SSE	28SSW	30NW	27SW	20SW	18SSW	22SW	22WSW	42SE	18 SSE 43
64	SSE	48NNW	32SSE	41SSW	28SW	30WSW	26NNW	26SSW	26NW	36SW	22SE	42S	45 SSE 48
65	S	42NW	36NNW	23SSE	36NNW	40SW	26S	27SSE	22NW	41NW	30ESE	44SE	46 S 48
66	ESE	21NNW	36WSW	23S	33SW	31SSW	30SSW	33SW	26NNW	28NW	36SE	48SSE	46 SE 48
67	SE	40SW	24SSE	42SSE	28N	27SSE	30SW	16SSW	15SW	30NNW	32SE	35SSE	42 SF 52
68	SSE	29SSE	27SW	35NW	31SW	24N	3523/	2324/	3236/	2518/	2515/	3816/	37 SSE 39
69	16/	4715/	6234/	2723/	2933/	24 5/	3130/	2020/	1722/	2133/	3616/	2815/	36 15/ 62
70	13/	4216/	3234/	4315/	2931/	2735/	3626/	2028/	2134/	4034/	3216/	5016/	40 16/ 50
71	71/	3434/	3134/	3922/	2931/	3323/	2223/	2821/	2021/	2733/	3216/	3516/	48 16/ 48
72	16/	5122/	2224/	3135/	4026/	1926/	2522/	1922/	2133/	2226/	3714/	3916/	38 16/ 50
73	16/	4515/	3416/	3434/	2633/	2823/	2223/	2019/	1823/	2217/	3422/	5415/	28 22/ 54
74	14/	2516/	4016/	3415/	3422/	2134/	3523/	1932/	2333/	2317/	3017/	2715/	45 15/ 45
75	16/	5315/	5416/	4635/	2933/	4121/	2719/	2421/	25 9/	2916/	2916/	2834/	29 16/ 56
MEAN													
S D													
TOTAL OBS													

NOTES \* (BASED ON LESS THAN FULL MONTHS)

USAF ETAC FORM 0-88-5 (OLA) (BASED ON LESS THAN FULL MONTHS AND +100 KNOTS)



(BASED ON LESS THAN FULL MONTHS AND +100 KNOTS)

1  
 CLIMATOLOGY BRANCH  
 USAFETAC  
 AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF WIND  
 DIRECTION AND SPEED  
 (FROM HOURLY OBSERVATIONS)

SURFACE WINDS

STATION 74835 STATION NAME ATHERTON CA CLASS ALL WEATHER YEAR 77-81 MONTH JAN  
 HOURS 000-0200  
 CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	1.2	2.0	1.2	.1								5.3	4.8
NNE			.2	.1								2.6	3.3
NE	2.2	1.1										4.8	2.6
ENE	1.2	1.1										2.2	2.9
E	2.6	1.1	.1									4.4	3.5
ESE	4.1	4.3	.7	.4								10.4	4.2
SE	.3	3.1	1.8	.8	.2							8.2	6.4
SSE	1.7	2.1	2.7	2.5	.7	.5	.4					9.8	10.0
S	1.4	1.1	2.2	.8	.2	.2	.4					7.2	8.5
SSW	.2		.2	.2								1.6	4.8
SW	.5											.4	1.7
WSW		.1										.1	4.0
W	.1	.1										.8	3.7
WNW	.1	.2	.1									.7	4.2
NW	1.1	.7	.2									2.0	3.6
NNW	1.1	1.1	1.4	.5								4.7	6.3
VARBL													
CALM												34.9	
	24.6	12.1	17.3	5.5	1.2	.7	.7					170.0	3.5

TOTAL NUMBER OF OBSERVATIONS 837

1  
 NATIONAL METEOROLOGICAL SERVICE  
 METEOROLOGICAL SERVICE/NAO

# SURFACE WINDS

## PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS)

STATION NAME FAIRBANKS, AK, CA YEARS 77-81 MONTH JAN  
 CLASS ALL WEATHER  
 CONDITION 3300-0500  
 HOURS (L & T)

SPEED (KNTS) DIR.	1-3	4-6	7-10	11-14	17-21	22-27	28-33	34-40	41-47	48-55	≥56	%	MEAN WIND SPEED
N	.1	1.0	1.0	.2								5.6	4.6
NNE	.1	.1	.2									2.7	3.2
NE	.1	.1										3.3	2.4
ENE	.1	.1										3.7	2.7
E	.1	1.0	.1									5.0	3.2
ESE	1.0	2.0	1.6	.1								6.2	4.9
SE	1.0	4.1	1.4	.2	.2	.1						12.3	5.5
SSE	1.2	2.2	1.6	1.3	1.0	1.1	.5					8.7	11.6
S	1.7	1.4	1.3	1.0	.1	.6						6.1	8.4
SSW	1.7	.1	.2	.4								2.4	5.5
SW	.1											.6	2.2
WSW	.1	.4										.5	4.0
W	.4	.1										.5	2.8
WNW	.1	.1	.2									1.1	4.6
NW	1.1	.7										1.8	3.5
NNW	1.1	1.3	1.0	.5								3.8	6.1
VARBL													
CALM												37.6	
	2.0	19.9	8.6	4.3	1.3	1.9	.5					100.0	3.6

TOTAL NUMBER OF OBSERVATIONS 837

U.S. AIR FORCE  
 TAC  
 WEATHER SERVICES/MAC

PERCENTAGE FREQUENCY OF WIND  
 DIRECTION AND SPEED  
 (FROM HOURLY OBSERVATIONS)

SURFACE WINDS

STATION ATM - AM - CA STATION NAME 73-81 YEARS JAN  
 CLASS ALL WEATHER MONTH JAN  
 CONDITION 0600-0800  
 HOURS (L & T.)

SPEED (KNTS) DIR	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	.2	.3	1.6	.1								7.8	5.0
NNE	1.2	.4										1.7	2.6
NE	.1											3.0	2.1
ENE	.3	.4										2.6	2.6
E	.4	.3										3.0	2.6
ESE	.2	2.1	.5	.1								5.6	4.1
SE	.2	3.1	1.6	1.6	.5							9.6	6.8
SSE	.2	3.1	3.2	1.7	1.8	1.2	.2					11.0	11.1
S	1.2	1.4	.5	.2	.1	.1						3.9	5.7
SSW	.2	.4		.2	.1							1.0	8.6
SW	1.1	.5	.1		.1	.1						2.0	5.4
WSW	.1	.4	.2									.7	5.7
W	.2	.3										1.1	2.8
WNW	.4	.3										.6	2.4
NW	.2	.7	.1									2.0	4.5
NNW	1.2	1.2	.7	.5								4.8	5.2
VARBL													
CALM												39.7	
	2.2	12.6	7.6	4.4	2.6	1.2	.2					100.0	3.6

TOTAL NUMBER OF OBSERVATIONS 837

1  
 NATIONAL CLIMATOLOGY BRANCH  
 USAFETAC  
 AIR WEATHER SERVICE/NAAC

PERCENTAGE FREQUENCY OF WIND  
 DIRECTION AND SPEED  
 (FROM HOURLY OBSERVATIONS)

**SURFACE WINDS**

STATION NAHUEL AERIAL CA YEARS 73-81 MONTH JAN  
 STATION NAME CLASS ALL WEATHER MONTH 1900-1100  
 CONDITION HOURLY (L.S.T.)

SPEED (KNTS) DIR.	1-3	4-6	7-10	11-14	17-21	22-27	28-33	34-40	41-47	48-55	≥56	%	MEAN WIND SPEED
N	1.7	2.2	1.7	1.1	.6							9.1	6.9
NNE	1.7	.7										2.5	2.7
NE	.7	.4										1.1	2.6
ENE	.7	.2	.1									1.1	3.3
E	1.7	.7	.1									1.8	3.6
ESE	.2	1.7	.4	.4								4.5	4.1
SE	1.7	2.3	1.6	1.3	.5	.5						7.8	8.4
SSE	1.7	3.3	2.5	3.2	1.6	.6	.1	.1				12.4	10.9
S	1.7	3.3	1.3	.5	.4	.1						9.2	5.8
SSW	1.1	1.7	.5	.5		.1						3.1	6.5
SW	1.7	.4	.2	.5		.1						3.1	5.5
WSW	1.7	.7	.2		.1							1.6	4.8
W	1.7	.6	.1	.1								2.2	3.4
WNW	1.1	.7	.7									1.9	3.7
NW	1.2	1.6	.4									3.1	4.1
NNW	1.4	1.7	2.6	1.7	.2							7.0	7.3
VARBL													
CALM												29.5	
	12.1	22.2	11.9	6.5	3.3	1.4	.1	.1				100.0	4.7

TOTAL NUMBER OF OBSERVATIONS 837

1  
 GLOBAL CLIMATOLOGY BRANCH  
 USFETAC  
 AIR WEATHER SERVICE/HAC

PERCENTAGE FREQUENCY OF WIND  
 DIRECTION AND SPEED  
 (FROM HOURLY OBSERVATIONS)

SURFACE WINDS

STATION: AIRPORT, CA 77-FL MONTH: JAN  
 STATION NAME: ALL WEATHER YEARS: 1200-1400  
 CLASS: HOURS (L.S.T.):  
 CONDITION:

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	.2	1.0	2.3	1.2								7.6	6.5
NNE	.2	.8	.2									1.4	3.4
NE	.2	.1										1.0	2.6
ENE	.7	.2	.1									1.1	2.9
E	.6	.1	.1									1.2	3.5
ESE	.2	.2	.2	.1								1.6	4.8
SE	1.2	1.0	.8	1.1	.6							4.4	7.5
SSE	.7	2.3	2.3	3.0	.6	1.0	.4					12.2	9.9
S	.7	4.3	3.1	2.0	.7	.1	.1					13.1	7.6
SSW	.2	2.0	.6	.6								5.7	5.4
SW	1.2	1.3	.6	.4		.1						3.6	5.9
WSW	.7	1.2		.4	.1							4.4	4.3
W	.3	1.1	.2									4.5	2.9
WNW	.1	1.1	.7									3.8	3.9
NW	.3	2.0	1.6	.2	.1							7.2	5.1
NNW	1.0	1.7	2.6	2.3	.5	.5	.1					8.6	9.9
VARBL													
CALM												18.5	
	10.7	21.7	15.8	11.2	2.3	1.7	.6					100.0	5.5

TOTAL NUMBER OF OBSERVATIONS 837

1  
J. L. CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

SURFACE WINDS

STATION NAME: 14434 WEATHER: ARE CA YEARS: 77-81 MONTH: JAN  
STATION: CLASS: ALL WEATHER HOURS: 1500-1700  
CONDITION:

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 14	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	.1	5.1	1.3	1.4	.1	.1						9.6	5.9
NNE	.1	.1	.4									1.9	3.9
NE	.1	.4	.2	.1								1.2	5.0
ENE	.1											.2	2.0
E	.1	.4										1.0	3.3
ESE	.4	.7	.1	.4								1.6	6.2
SE	.1	2.4	1.2	.7	.4	.1						6.6	6.7
SSE	.4	3.4	2.6	2.6	1.3	.1	.4	.1				13.3	9.7
S	.1	3.1	1.9	1.4								10.2	5.8
SSW	.1	2.4	.6	.6								5.9	4.8
SW	.1	1.1	.1	.2								4.1	3.9
WSW	.1	.4	.1									2.3	2.7
W	.1	1.1	.1	.1								4.3	3.1
WNW	.1	.1	.2	.1								3.5	3.9
NW	.1	2.1	.7	.2	.1							4.6	5.3
NNW	.1	3.2	2.6	1.3	1.3	.1						10.9	7.4
VARBL													
CALM												19.0	
	1.1	27.2	12.2	7.3	2.9	.8	.4	.1				100.0	5.0

TOTAL NUMBER OF OBSERVATIONS 835

GENERAL CLIMATOLOGY BRANCH  
USAFETAC  
AF WEATHER SERVICE/MAC

# **SURFACE WINDS**

## **PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS)**

STATION 171934 KATHLEEN AFB CA STATION NAME 77-81 YEARS JAN MONTH  
CLASS ALL WEATHER 1800-2000 HOURS (L.S.T.)  
CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	2.0	2.0	1.6	.6	.2							6.8	6.1
NNE	2.2	.0	.1									3.1	3.2
NE	1.4	.1										1.6	2.4
ENE	1.2	.0										1.4	2.5
E	1.0	1.4										3.3	3.4
ESE	.0	2.6	.4									5.9	3.5
SE	1.0	5.6	1.9	.4	.1	.1						11.8	5.1
SSE	1.4	3.2	1.7	2.5	.8	.1						9.9	6.1
S	1.1	2.4	1.6	1.3	.2	.4	.1					9.1	7.1
SSW	.0	.4	.1	.2	.2							1.6	6.9
SW	.0	.0	.1									1.7	3.6
WSW	.0	.0	.1									.6	4.8
W	.0	.4	.1									1.1	4.0
WNW	.0	.2			.1							.6	6.6
NW	.0	1.2	.1	.1								1.7	5.1
NNW	1.0	2.5	1.0	.7								6.1	5.5
VARBL													
CALM												33.8	
	20.4	24.1	9.7	5.4	1.8	.6	.1					100.0	3.7

TOTAL NUMBER OF OBSERVATIONS 837



GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

## SURFACE WINDS

### PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS)

STATION MACHER APP CA STATION NAME MACHER APP CA YEARS 73-81 MONTH JAN  
CLASS ALL WEATHER HOURS (L.S.T.) 2100-2300  
CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 14	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	1.0	.5	1.8	.8								4.7	6.8
NNE	1.2	.1	.1									2.0	2.7
NE	2.9	.1										3.0	2.3
ENE	2.2	.5	.1									2.6	2.9
E	3.2	1.8										5.0	3.1
ESE	5.6	5.9	.2	.1								12.8	3.8
SE	4.3	3.7	2.4	.7		.1						11.0	5.5
SSE	1.6	3.5	1.4	1.4	1.1	.5						9.4	8.8
S	1.0	2.0	1.2	1.7	.1	.4	.1					6.5	8.9
SSW	.1	.7	.1	.4								1.3	7.4
SW	.5	.5										1.0	3.0
WSW	.5	.4										.6	4.0
W	.5	.0										.8	3.3
WNW	.7	.4	.1	.1								1.3	4.1
NW	1.1	.6										1.7	3.2
NNW	.5	1.3	1.3	.1								3.2	6.1
VARBL													
CALM												33.1	
	27.5	22.9	8.8	5.4	1.2	1.0	.1					100.0	3.7

TOTAL NUMBER OF OBSERVATIONS 837

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

## SURFACE WINDS

### PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS)

121835 STATION NAME PATHER AFB CA YEARS 73-81 MONTH JAN  
STATION CLASS ALL HOURS (L.S.T.)  
ALL WEATHER  
CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	1.2	2.3	1.5	.7	.1	.1						6.9	5.9
NNE	1.7	.5	.2	.1								2.3	3.1
NE	1.7	.3	.1	.1								2.4	2.6
ENE	1.4	.4	.2									1.9	2.8
E	1.9	1.1	.1									3.1	3.2
ESE	2.6	2.7	.5	.2								6.1	4.2
SE	2.7	3.1	1.6	.9	.3	.1						8.7	6.3
SSE	1.7	2.2	2.7	2.2	1.1	.6	.2	.0				10.8	10.0
S	3.2	2.7	1.6	1.1	.2	.2	.1					8.2	7.2
SSW	1.1	1.1	.3	.4	.2	.1						2.8	5.7
SW	1.2	.5	.1	.1	.2	.2						2.0	4.6
WSW	.2	.4	.1	.2	.2							1.3	4.1
W	1.3	.5	.1	.2	.2							1.9	3.1
WNW	.2	.5	.2	.2	.2							1.7	4.0
NW	.2	1.3	.4	.1	.1							3.0	4.6
NNW	1.4	1.2	1.7	.9	.2	.1	.2					6.1	7.1
VARBL													
CALM												30.8	
	27.7	22.4	10.5	6.8	2.1	1.2	.3	.0				100.0	4.2

TOTAL NUMBER OF OBSERVATIONS 6694

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/HAC

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

SURFACE WINDS

77-035  
STATION

ATMOSPHERIC CA

STATION NAME

77-81  
YEARS

FEB  
MONTH

ALL WEATHER

CLASS

0000-0200

HOURLS (L.S.T.)

CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	1.2	1.1	.2	1.1								4.2	7.3
NNE	.5	.9		.1								1.6	4.7
NE	2.4	.1	.1									3.7	2.3
ENE	2.8	.5										2.8	3.0
E	6.2	2.7										5.1	3.1
ESE	6.4	6.2	.7									13.3	3.6
SE	4.6	6.3	2.7	.7	.1							14.2	5.1
SSE	.1	3.4	2.5	1.8	.7	.5	.3					11.3	9.2
S	.2	1.5	2.2	1.2	.5							6.4	8.3
SSW	.7	.5	.1	.7	.4							2.0	9.3
SW	.1	.4	.1	.1								.8	6.2
WSW		.1										.1	4.0
W	.1	.3										.4	3.7
WNW	.7	.1										.5	2.8
NW	.7	.7	.4									1.7	4.5
NNW	.5	1.5	.9	.5	.1							3.7	6.8
VARBL													
CALM												28.3	
	26.7	26.3	10.0	6.2	1.8	.5	.3					100.0	4.1

TOTAL NUMBER OF OBSERVATIONS

761

1  
 NATIONAL CLIMATOLOGY BRANCH  
 USAFETAC  
 AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF WIND  
 DIRECTION AND SPEED  
 (FROM HOURLY OBSERVATIONS)

SURFACE WINDS

STATION NAME WINDY AIRCRAFT YEARS 73-81 MONTH FEB  
 CLASS ALL WEATHER HOURS (LST) 1300-1500  
 CONDITION \_\_\_\_\_

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	2.0	2.0	1.0	0.2								6.6	5.9
NNE	0.0	0.0										2.0	2.7
NE	0.0	0.0										4.5	2.3
ENE	1.4	0.0	0.1									2.2	3.4
E	0.4	0.0										2.9	2.6
ESE	0.0	4.0	0.1									8.8	3.6
SE	0.0	0.0	0.0	0.0		0.1						13.9	5.2
SSE	0.0	2.0	2.5	0.2	0.3	1.0						10.0	9.8
S	1.0	1.0	3.1	1.0								7.5	7.3
SSW	0.0	0.0	0.0	0.0								1.4	8.3
SW	0.0		0.0	0.0								0.8	7.8
WSW	0.0			0.0								0.4	8.7
W	0.0											0.1	3.0
WNW	0.0	0.0										0.3	3.5
NW	0.0	0.0	0.0	0.1								1.3	5.1
NNW	0.0	0.0	1.0	0.0								2.4	6.7
VARBL													
CALM												34.0	
	2.0	2.0	1.0	0.1	0.3	1.0						10.0	3.8

TOTAL NUMBER OF OBSERVATIONS 762

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

# SURFACE WINDS

## PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS)

STATION NAME: ATHER AND CA YEAR: 77-81 MONTH: FEB  
 CLASS: ALL WEATHER HOURS (LST): 0600-0800  
 CONDITION: \_\_\_\_\_

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	.0	.0	.0	.0	.1							4.5	6.4
NNE	.0	.0	.0									2.5	2.6
NE	.0	.0										2.5	2.3
ENE	.0	.0										2.1	2.6
E	.0	.0										3.5	2.9
ESE	.0	.0	.0									7.6	3.6
SE	.0	.0	.0	.4	.1							13.0	4.9
SSE	.0	.0	.0	.5	.4	.4	.1					11.3	9.7
S	.0	.0	.0	.0								7.0	6.4
SSW	.0	.0	.0	.0								1.2	8.2
SW	.0	.0	.0	.0								1.3	5.8
WSW	.0											.4	2.0
W		.0	.0									.8	6.0
WNW	.0	.0		.1								.7	4.2
NW	.0	.0	.1	.1								2.9	3.9
NNW	.0	.0	.0	.0	.0							3.5	7.3
VARBL													
CALM												35.3	
	20.4	21.2	9.8	7.1	.9	.4	.1					100.0	3.6

TOTAL NUMBER OF OBSERVATIONS 762

1  
 OFFICE CLIMATOLOGY BRANCH  
 USAFETAC  
 AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF WIND  
 DIRECTION AND SPEED  
 (FROM HOURLY OBSERVATIONS)

SURFACE WINDS

STATION AFB 04 STATION NAME 73-61 YEARS FE6  
 CLASS ALL WEATHER HOURS (L.S.T.) 0900-1100  
 CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	.1	1.1	1.2	.8	.7	.4						6.4	8.3
NNE	.1	.1										.4	3.0
NE	.1											.4	1.7
ENE		.1										.1	6.0
E	.1	.5										1.3	3.2
ESE	.1	.3	.7	.1								3.8	4.1
SE	1.1	3.1	1.7	1.2								7.5	6.5
SSE	2.1	4.5	3.9	4.2	.9	1.1	.4					17.5	9.7
S	3.1	3.4	3.8	2.9								14.4	6.4
SSW	1.0	2.1	1.8	.5								5.5	6.1
SW	.1	1.1	.8	.3								3.0	5.8
WSW	.1	.7	.1	.3								1.6	5.3
W	.1	.8	.3	.3								2.2	4.6
WNW	1.7	.7	.7									2.6	3.5
NW	1.1	1.6	.2									4.3	4.4
NNW	.1	2.0	2.4	1.2	.3							7.0	7.8
VARBL												21.9	
CALM													
	1.1	24.7	17.7	11.7	1.8	1.4	.4					170.0	5.4

TOTAL NUMBER OF OBSERVATIONS 762

1  
 GLOBAL CLIMATOLOGY BRANCH  
 USAFETAC  
 AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF WIND  
 DIRECTION AND SPEED  
 (FROM HOURLY OBSERVATIONS)

SURFACE WINDS

12-835 STATION NAME: RATHER APT, CA YEARS: 77-81 MONTH: FEB  
 ALL WEATHER CLASS: 1290-1400 HOURS (L.S.T.)  
 CONDITION:

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 14	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	1.4	1.4	1.6	.7	.4	.7	.3					6.7	9.4
NNE	.7	.7	.1									1.0	3.4
NE	.1											.1	2.0
ENE	.1											.1	2.0
E	.4			.1								.5	4.3
ESE	.4	.4	.7	.1								2.0	4.4
SE	.7	.4	.7	.7	.5							2.9	9.8
SSE	1.6	2.1	2.9	2.9	2.4	.9	.1					13.9	11.5
S	2.4	6.6	4.1	2.5	.3	.1	.3					16.1	7.3
SSW	2.1	3.4	3.1	1.3	.4							11.7	6.4
SW	2.1	1.4	.9	.3	.4							5.6	5.5
WSW	1.7	1.4	.3	.1								3.1	4.4
W	2.4	2.2	.3	.4								5.5	4.3
WNW	1.4	1.2	.4	.3								3.7	4.8
NW	2.4	2.2	1.6	.5								7.6	5.5
NNW	.9	1.4	1.7	1.7	.9							7.1	9.2
VARBL													
CALM												12.2	
	27.4	26.7	19.0	12.6	5.2	1.6	.7					100.0	6.5

TOTAL NUMBER OF OBSERVATIONS 762

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
A. WEATHER SERVICE/MAC

# SURFACE WINDS

## PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS)

STATION 10534 STATION NAME NATHAL AFR CA YEARS 77-81 MONTH FEB  
STATION CLASS ALL WEATHER CLASS 1500-1700 HOURS (LST.)  
CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	1.1	2.3	.7	.5	.3	.3	.1					7.8	7.6
NNE	.7	.4										1.4	3.4
NE	.8	.1										.5	3.0
ENE	.3		.1									.4	4.7
E	.4	.1										.9	3.7
ESE	.7	.3	.7	.1								2.5	4.6
SE	1.7	1.5	.7	.8	.5	.3	.1					5.2	9.0
SSE	.7	2.2	2.9	2.1	1.2	.4	.3					12.1	9.9
S	2.1	5.5	3.7	1.2	.4							15.1	5.8
SSW	4.7	3.1	2.9	1.6	.5							13.0	6.2
SW	1.3	3.1	2.4	.4	.3							7.9	6.3
WSW	1.7	.3	1.7	.3								3.1	5.8
W	.3	.3	.4									2.1	4.4
WNW	.4	1.6	.5	.7								3.1	6.4
NW	1.0	2.4	1.7	.1	.1							5.8	5.8
NNW	.9	2.4	2.6	1.4	.9							8.1	8.9
VARBL													
CALM												11.7	
	23.8	24.9	19.6	17.2	4.2	1.2	.5					100.0	6.1

TOTAL NUMBER OF OBSERVATIONS 762



GENERAL CLIMATOLOGY BRANCH  
USAFETAC  
ALL WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

SURFACE WINDS

STATION 10-34 PATH 0-1000 CA YEARS 77-81 MONTH FEB  
STATION NAME ALL WEATHER CLIM 1800-2000  
CONDITION HOURLY (LST)

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 14	15 - 17	18 - 20	21 - 23	24 - 26	27 - 29	30 - 32	33 - 35	36 - 38	39 - 41	42 - 44	45 - 47	48 - 50	51 - 53	54 - 56	≥ 56	%	MEAN WIND SPEED
N	.1	1.2	.1	1.0	.7															6.8	6.6
NNE	.1	.4	.1																	1.6	3.3
NE	.1	.3																		2.4	2.4
ENE	.7	.3																		1.2	2.9
E	1.3	.1	.1																	2.6	3.4
ESE	1.4	3.1	.5																	7.0	3.9
SE	1.3	5.2	2.1	1.2																12.2	5.3
SSE	1.1	3.4	2.6	2.1	.9	.9	.4													13.0	9.8
S	.7	2.1	1.8	.4	.3															7.6	5.6
SSW	1.3	1.1	1.3	.3	.1															5.4	5.4
SW	.7	.1	.4	.3	.4															2.2	8.5
WSW	.1	.1		.1																.7	6.0
W	.4	.1																		.9	3.6
WNW	.1	.4	.1																	1.3	3.8
NW	1.1	1.1	.3																	3.7	4.0
NNW	1.2	1.1	1.6	.4	.1															5.0	6.5
VARBL																					
CALM																				26.5	
	.2	22.4	11.7	5.9	2.5	.9	.4													100.0	4.4

TOTAL NUMBER OF OBSERVATIONS 762

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

# SURFACE WINDS

## PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS)

STATION 7-035 NATHAN AFB GA STATION NAME 77-F1 YEARS FEB  
MONTH 2100-2300  
CLASS ALL WEATHER  
CONDITION

SPEED (KNTS) DIR.	1-3	4-6	7-10	11-16	17-21	22-27	28-33	34-40	41-47	48-55	≥56	%	MEAN WIND SPEED
N	1.7	1.4	1.7	1.7	.3							6.2	7.5
NNE	.7	.7	.2									1.4	3.5
NE	1.7	.4										2.9	2.5
ENE	1.7	.4										2.1	2.6
E	3.4	4.7										7.6	3.4
ESE	7.7	8.7	.5									14.4	3.5
SE	5.2	7.7	1.8	.5	.1	.1						14.8	4.9
SSE	2.7	2.7	2.6	1.8	1.7	.7	.5					11.9	10.0
S	1.7	2.4	1.7	.9	.3	.3						7.0	7.2
SSW	.7	1.2	.7	.7	.1	.7						3.4	7.7
SW	.1	.1	.1		.1	.3						.8	13.8
WSW		.1										.1	5.0
W	.1	.1	.1									.4	5.0
WNW	.1	.4										.5	4.5
NW	.7	.7	.1									1.3	4.7
NNW	.7	1.7	.8	.1	.1							2.9	6.7
VARBL												22.3	
CALM													
	20.6	20.7	10.2	4.7	2.1	1.8	.5					100.0	4.5

TOTAL NUMBER OF OBSERVATIONS 762

1  
 CENTRAL CLIMATOLOGY BRANCH  
 USAFETAC  
 AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF WIND  
 DIRECTION AND SPEED  
 (FROM HOURLY OBSERVATIONS)

SURFACE WINDS

STATION NAME: KATHAR AFB CA YEARS: 77-81 MONTH: FEB  
 CLASS: ALL WEATHER HOURS (L.S.T.): ALL  
 CONDITION:

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 14	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	1.0	1.7	1.1	.0	.3	.2	.0					6.0	7.4
NNE	.2	.1	.1	.1								1.5	3.3
NE	1.0	.2	.0									2.1	2.3
ENE	.0	.7	.0									1.4	3.0
E	1.0	1.0	.0	.0								3.1	3.2
ESE	3.7	3.0	.5	.0								7.4	3.7
SE	3.1	4.0	1.6	.8	.2	.1	.0					10.5	5.6
SSE	1.0	3.0	2.8	2.9	1.0	.8	.3					12.6	10.0
S	2.0	3.3	2.6	1.4	.2	.0	.0					10.1	7.7
SSW	1.0	1.0	1.3	.7	.2	.2	.0					5.4	6.5
SW	.0	.0	.7	.2	.1	.0						2.8	6.5
WSW	.0	.4	.2	.1								1.2	5.2
W	.7	.7	.2	.1								1.6	4.4
WNW	.7	.0	.7	.1								1.6	4.6
NW	1.7	1.5	.7	.1	.0							3.6	4.9
NNW	.7	1.7	1.6	.8	.3							5.1	7.8
VARBL													
CALM												24.0	
	27.2	25.3	13.5	8.2	2.4	1.1	.4					100.0	4.8

TOTAL NUMBER OF OBSERVATIONS 6095

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/HAC

# SURFACE WINDS

## PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS)

STATION 100835 NATHAN AFB CA STATION NAME 73-81 YEARS MAR  
STATION NORTH 0000-0200  
CLASS ALL WEATHER  
CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	1.0	1.2	2.3	1.0	.0							6.2	7.7
NNE	1.0	.2										1.8	3.1
NE	1.1	.2										1.3	2.5
ENE	.7	.5										1.2	2.8
E	1.2	1.4										3.1	3.5
ESE	5.2	8.6	.4									14.8	3.7
SE	7.5	11.2	1.4	.2								20.4	4.3
SSE	1.0	5.7	2.2	1.7	.5	.8						12.8	8.0
S	1.9	2.4	1.1	.8	.1							6.3	6.1
SSW	.7	.5	1.2	.4		.1						3.0	7.2
SW		.7	.5	.6								1.8	8.4
WSW	.6	.4	.1									.8	4.0
W	.1	.2	.1									.7	4.2
WNW		.1	.1									.4	5.0
NW	.5	1.0	.5									2.3	4.7
NNW	.5	1.2	2.3	.4								4.5	7.0
VARBL													
CALM												18.5	
	20.0	36.6	12.1	5.0	.8	1.0						100.0	4.4

TOTAL NUMBER OF OBSERVATIONS 837

1  
GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

# **SURFACE WINDS**

## **PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS)**

STATION NAME WATKINS AFB TX YEARS 73-81 MONTH MAR  
STATION WATKINS AFB TX CLASS ALL WEATHER HOURS (L.S.T.) 0300-0500  
CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	1.2	2.4	1.6	1.3	.8							6.7	7.2
NNE	1.6	.4		.1								1.4	3.6
NE	1.7	.1	.1									1.9	2.6
ENE	1.5	.7										1.6	2.2
E	.1	1.4										4.5	3.2
ESE	5.9	6.7	.2									12.8	3.7
SE	.6	10.4	2.5	.1	.1	.1						18.9	4.7
SSE	1.7	2.7	2.7	1.6	.8	.1						9.9	8.1
S	1.4	1.3	1.0	.8	.4							6.8	6.9
SSW	1.1	.5	.6									2.2	4.8
SW	.2	.7	.4	.4	.1							1.8	7.5
WSW	.5	.1	.1									.4	4.7
W	.7											.2	3.0
WNW	.7	.7	.1									.6	4.4
NW	.8	1.7	.9									2.6	5.0
NNW	.4	1.8	1.1	.6								3.6	7.3
VARBL													
CALM												24.1	
	21.5	30.3	12.2	4.9	1.7	.2						100.0	4.1

TOTAL NUMBER OF OBSERVATIONS 637

GENERAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

# SURFACE WINDS

## PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS)

STATION 04835 STATION NAME MATHER AFB CA YEARS 77-81 MONTH MAR  
CLASS ALL WEATHER HOURS 1600-0800  
CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	.1	2.3	2.0	1.1	.2							8.4	6.7
NNE	.1	.4	.1									1.1	3.8
NE	.3	.2										2.5	2.3
ENE	.8	.1	.1									1.1	2.8
E	1.7	.6										2.3	2.8
ESE	3.9	3.0	.4									8.2	3.7
SE	3.7	7.5	2.7	.5	.1							14.6	5.1
SSE	2.4	4.4	2.2	2.0	.8	.1	.1					12.4	7.8
S	2.7	3.5	3.7	1.1	.1	.1						9.4	6.7
SSW	1.1	.7	.5	.2								2.4	5.2
SW	.7	.5	.4	.2								1.8	5.5
WSW	.4											.4	2.0
W	.5											.6	2.4
WNW	.4	.6	.1									1.1	3.8
NW	1.1	.2	1.1									2.7	5.4
NNW	.5	1.7	1.7	2.2								6.1	8.6
VARBL													
CALM												25.0	
	23.9	27.2	14.0	7.2	1.3	.4	.1					100.0	4.4

TOTAL NUMBER OF OBSERVATIONS 837

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

# SURFACE WINDS

## PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS)

73-835 WATER AFB CA 73-81 MAR  
STATION STATION NAME YEARS MONTH  
ALL WEATHER  
CLASS  
CONDITION  
0900-1100  
HOURS (L.S.T.)

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 14	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	1.1	.7	1.9	3.0	1.3							3.0	10.9
NNE	.7	.4	.4									1.4	3.9
NE	.7	.1										.4	2.3
ENE	.1	.1										.2	4.0
E	.4	.6	.1									1.1	4.0
ESE	.5	.5	.2	.1								1.3	5.2
SE	1.5	1.8	1.2	.4	.1	.1						5.4	5.9
SSE	2.7	3.0	4.2	2.4	1.7	.1	.4	.1				14.8	8.7
S	2.7	6.2	7.9	1.8	.5			.1				19.2	7.2
SSW	1.0	2.3	2.6	1.4								8.2	6.7
SW	1.0	.8	.7	.6								3.9	5.3
WSW	1.0	1.1	.4									2.4	4.3
W	1.2	1.7	.4									2.6	3.8
WNW	.6	.7	.7	.1	.1							2.0	6.2
NW	1.7	1.7	1.3	.5	.2							5.4	6.5
NNW	1.3	1.4	3.7	2.0	.8	.2						9.6	9.5
VARBL													
CALM												14.0	
	12.8	23.3	25.4	12.3	4.1	.5	.4	.2				100.0	6.4

TOTAL NUMBER OF OBSERVATIONS 837

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

## SURFACE WINDS

### PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS)

70-835 STATION 70-835 WATHER AFR CA STATION NAME 77-81 YEARS MAR NORTH  
ALL WEATHER CLASS 1200-1400 HOURS (L.S.T.)

CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	.1	1.0	1.0	0.2	1.0	.1						7.5	10.2
NNE	.4	.2	.4			.1						1.1	7.0
NE	.4	.1	.1									.6	4.0
ENE	.1	.1										.7	2.5
E	.4	.1	.1									.6	3.4
ESE	.1	.4	.6									1.4	5.6
SE	.4	1.0	.5	.4								2.4	6.8
SSE	.7	1.7	2.2	1.6	1.3	.9	.1					8.4	11.6
S	1.6	4.7	6.3	3.9	.4	.2						17.1	8.4
SSW	2.1	3.6	2.7	1.2	.2	.1						11.0	6.3
SW	1.2	2.6	3.1	1.2	.6	.1						9.8	7.6
WSW	1.6	1.1	.6	.5	.1							4.2	6.3
W	1.7	1.3	.6	.1	.2							4.4	5.3
WNW	1.0	1.4	.2	.5	.1							3.2	5.8
NW	2.2	1.3	2.7	1.6	.8							8.6	8.3
NNW	1.0	2.2	2.7	2.3	2.0	.7	.2					11.1	11.7
VARBL													
CALM												7.9	
	17.8	24.4	24.9	15.7	6.8	2.3	.4					100.0	7.7

TOTAL NUMBER OF OBSERVATIONS 837



GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AF WEATHER SERVICE/MAC

# SURFACE WINDS

## PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS)

12-835 NATHER AFB CA 77-81 MAR  
STATION STATION NAME YEARS MONTH  
ALL WEATHER  
CLASS  
CONDITION  
1530-1700  
HOURS (L.S.T.)

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 14	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	.7	1.3	2.2	1.8	.8	.3						6.9	9.8
NNE	.5	.4										.8	2.7
NE	.4											.4	2.0
ENE	.4		.1									.5	3.5
E	.4	.4	.1									.8	4.0
ESE	.2	.1	.4									.7	6.0
SE	1.2	1.2	1.1	.5								3.9	5.8
SSE	1.2	2.2	3.1	1.3	.8	.1	.2					8.6	8.9
S	2.6	5.5	2.7	1.4	.1							12.4	6.1
SSW	.3	4.5	3.8	1.8	.4	.1						12.5	7.0
SW	1.7	3.1	3.2	3.5	.7							12.1	8.6
WSW	.7	1.3	1.7	1.2	.1							5.3	8.1
W	1.2	1.4	.8	.4								3.8	5.6
WNW	1.7	1.3	.6	.4								3.2	5.5
NW	.7	1.2	1.8	2.0	.4							6.7	8.7
NNW	.8	1.8	3.3	4.3	1.4	1.2	.2					13.1	12.0
VARBL													
CALM												8.1	
	14.1	26.2	24.6	18.5	4.4	1.6	.5					100.0	7.4

TOTAL NUMBER OF OBSERVATIONS 837

1  
 FEDERAL CLIMATOLOGY BRANCH  
 USAFETAC  
 AIR WEATHER SERVICE/MAC

# SURFACE WINDS

## PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS)

STATION 12835 STATION NAME FATHER AFB CA YEARS 77-81 MONTH MAR  
 CLASS ALL WEATHER  
 CONDITION

SPEED (KNTS) DIR	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	1.0	2.0	1.0	1.9	.2	.1						9.0	8.0
NNE	.1	.7	.1									1.0	4.8
NE	.1											.1	3.0
ENE	.1		.1									.6	3.2
E	1.4	.1										1.7	2.2
ESE	.1	1.1	.2	.1								3.2	3.8
SE	1.3	2.7	1.7	.2								8.1	4.5
SSE	.1	3.0	1.6	.6	.7	.1						9.2	5.7
S	3.7	3.3	1.6	.7								9.8	5.0
SSW	2.4	5.7	1.7	.8								10.6	5.3
SW	1.0	3.1	3.3	1.6	.2							10.6	7.2
WSW	.1	.7	1.2	.7	.1							3.4	8.1
W	.7	.1	.3	.2	.2							2.3	8.1
WNW	.1	.7		.4								1.7	5.6
NW	1.1	1.0	1.0	.1								3.9	5.6
NNW	1.1	2.3	3.1	1.4	.5	.7						9.6	8.5
VARBL													
CALM												16.2	
	23.3	22.9	15.6	3.6	1.6	.5						100.0	5.0

TOTAL NUMBER OF OBSERVATIONS 837

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
ATL WEATHER SERVICE/MAC

## SURFACE WINDS

### PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS)

00-839  
STATION

WATERS APP CA  
STATION NAME

77-81  
YEARS

MAR  
MONTH

ALL WEATHER  
CLASS

2100-2300  
HOURS (L.S.T.)

CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 14	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	1.0	1.0	.2	.1								6.9	8.5
NNE	.4	.4	.1	.1								1.0	4.6
NE	1.0	.4										1.7	2.6
ENE	.4	.1										.5	2.8
E	1.0	1.2										3.0	3.1
ESE	4.0	6.2	.2	.1								11.6	3.8
SE	5.7	6.3	1.2	.2								13.6	4.2
SSE	3.4	3.2	1.7	1.7	.5	.1						10.6	6.7
S	6.0	3.5	1.5	.8	.2							10.3	5.4
SSW	1.0	3.2	1.3	.5								7.6	5.1
SW	.8	1.1	.6	.5								3.2	6.2
WSW	.3	.2	.1									1.4	3.5
W	.1	.1	.5									.7	7.0
WNW	.4	.4	.2									1.4	5.3
NW	.6	1.1	.5	.1								2.3	5.2
NNW	1.0	1.0	1.2	1.2								4.7	6.8
VARBL													
CALM												19.5	
	37.1	33.5	10.6	8.1	.7	.1						100.0	4.3

TOTAL NUMBER OF OBSERVATIONS

837

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

# **SURFACE WINDS**

## **PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS)**

STATION 700935 FAIRHUR AFB CA STATION NAME 73-81 YEARS MAR  
MONTH  
ALL WEATHER CLASS ALL  
HOURS (L & T)

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	1.0	1.0	1.0	1.0	.5	.0						7.3	8.6
NNE	.5	.4	.1	.0		.0						1.2	4.1
NE	.0	.1	.0									1.1	2.6
ENE	.0	.0	.0									.8	2.8
E	1.0	.7	.0									2.1	3.2
ESE	.0	3.4	.3	.0								6.8	3.9
SE	3.7	5.3	1.6	.3	.0	.0						10.9	4.8
SSE	2.0	3.4	2.5	1.6	.7	.3	.1	.0				10.8	8.1
S	2.0	3.0	3.3	1.4	.0	.0		.0				11.4	6.7
SSW	1.0	2.0	1.8	.8	.1	.0						7.2	6.1
SW	1.0	1.0	1.6	1.1	.0	.0						5.6	7.4
WSW	.7	.0	.5	.3	.0							2.2	6.4
W	.0	.0	.4	.1	.1							1.9	5.4
WNW	.0	.0	.0	.2	.0							1.7	5.5
NW	1.1	1.3	1.2	.5	.0							4.3	6.8
NNW	.0	1.0	2.4	1.8	.6	.0	.1					7.7	9.7
VARBL													
CALM												16.9	
	23.0	24.4	17.9	10.0	2.7	.8	.2	.0				100.0	5.5

TOTAL NUMBER OF OBSERVATIONS 6696

1  
JULY 1985  
JULY 1985  
JULY 1985

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

SURFACE WINDS

STATION NAME: FATHER JEFF CA STATION: 77-81 YEARS: APP: NORTH: 0000-0200  
CLASS: ALL WEATHER  
CONDITION:

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 14	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	.0	1.7	1.7	.7								5.1	6.7
NNE	.2	.4	.1									1.6	3.3
NE	1.6	.7										1.9	2.4
ENE	.0											.9	2.3
E	1.6	1.1										2.7	3.2
ESE	7.7	7.6										15.4	3.4
SE	7.2	18.0	2.5	.4								28.0	4.4
SSE	7.7	7.6	2.1	.5								14.1	4.9
S	2.5	3.7	2.3	.2								8.1	5.2
SSW	.7	.4	.7	.2								2.1	5.8
SW	.1	.4	.1									.6	4.2
WSW			.1									.1	9.0
W	.1											.1	2.0
WNW	.1											.1	2.0
NW	.1	1.1	1.0	.4								2.6	7.1
NNW	.7	1.5	.7	.6								3.1	7.4
VARBL													
CALM												13.5	
	43.8	43.2	11.5	3.1								100.0	4.0

TOTAL NUMBER OF OBSERVATIONS 810

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/PAC

# SURFACE WINDS

## PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS)

72-835  
STATION

WATHER AFB CA

STATION NAME

77-81

YEARS

APR

MONTH

ALL WEATHER

CLASS

1300-0500

HOURS (L.S.T.)

CONDITION

SPEED (KNTS) DIR	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	.2	2.1	1.7	.7								6.7	7.4
NNE	.	.4										1.4	2.7
NE	1.5	.7										1.6	2.3
ENE	.5	.1										.6	2.8
E	1.6	.9										2.5	2.8
ESE	5.6	7.9	.2									16.8	3.5
SE	5.6	14.7	7.1	.4	.1							22.3	4.6
SSE	7.6	5.7	1.1	.2	.1							9.4	4.9
S	2.3	3.1	3.1	.4								9.0	5.8
SSW	.4	.7	.1									1.4	4.4
SW	.7											.2	2.0
WSW	.6											.4	2.3
W	.7											.1	2.0
WNW	.1	.7	.1									.5	4.3
NW	.4	.7	.1	.2								1.5	6.2
NNW	.7	1.7	2.1	.9								4.9	7.7
VARBL													
CALM												20.7	
	27.7	37.4	10.6	3.8	.2							100.0	3.8

TOTAL NUMBER OF OBSERVATIONS

810

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

SURFACE WINDS

STATION 121835 DATE 11 APR 73-81 STATION NAME LATHAM AFB CA YEARS APR MONTH 0600-0800 HOURS (L.S.T.)  
CLASS ALL WEATHER  
CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 14	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	1.0	2.1	7.1	1.7	.1							8.4	7.6
NNE	.7	.1	.1									1.0	3.0
NE	.7	.2										1.0	2.8
ENE	.5	.1										.6	3.2
E	2.5	.5										2.5	2.8
ESE	3.5	4.0	.4	.1								7.9	3.9
SE	3.5	8.4	1.4	.2								13.5	4.7
SSE	3.5	6.1	3.1	.2	.4							13.2	5.6
S	3.5	4.0	4.9	1.2								12.6	6.5
SSW	.7	1.2	1.1	.5	.1							3.7	6.8
SW	.7	.5	.5	.1								2.1	5.4
WSW	.1	.1	.1	.1								.5	6.5
W	.5	.2										.7	3.0
WNW	.2	.2										.5	3.3
NW	1.1	.5	.4									2.1	4.4
NNW	.2	1.1	2.1	2.7	.2	.1						6.7	9.1
VARBL													
CALM												23.0	
	2.7	30.7	17.2	6.3	.9	.1						100.0	4.4

TOTAL NUMBER OF OBSERVATIONS 809

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

SURFACE WINDS

STATION: 0835 MATHEW AFB GA STATION NAME: 73-81 YEARS: APR MONTH: 0900-1100 HOURS (L.S.T.)  
CLASS: ALL WEATHER  
CONDITION:

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 53	≥ 56	%	MEAN WIND SPEED
N	.7	1.7	2.5	3.0	.4							6.3	9.5
NNE	.7	.1										.2	3.0
NE	.4											.4	1.3
ENE	.7	.2										.7	3.0
E	.1	.1	.1									.4	5.7
ESE	.7	.5	.1									1.5	3.7
SE	.7	1.7	.5	.2	.2							3.6	6.4
SSE	3.7	1.7	1.5	.6	.4							6.3	6.4
S	4.2	6.7	6.2	2.3								19.4	6.4
SSW	3.7	6.7	4.3	1.0	.2							13.7	6.3
SW	3.3	3.7	1.5	1.0	.2							8.8	6.0
WSW	.7	.6	.7	.5								2.7	6.2
W	.2	1.5	.2	.1								4.1	4.1
WNW	.7	1.1	.2									2.2	4.3
NW	.7	1.1	2.7	.6	.2	.1						4.7	8.3
NNW	1.4	2.3	3.7	3.3	.6	.2						10.9	9.5
VARBL													
CALM												12.2	
	21.7	29.5	22.8	12.7	2.3	.4						100.0	6.0

TOTAL NUMBER OF OBSERVATIONS 810



GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
ALL WEATHER SERVICE/MAC

## SURFACE WINDS

### PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS)

724835 STATION MATHER AFB CA 72-81 YEARS APR MONTHS 1200-1400 HOURS (L.S.T.)

ALL WEATHER CLASS

CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 14	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 53	≥ 56	%	MEAN WIND SPEED
N	1.7	1.7	1.6	2.2	.2							7.5	8.0
NNE	.5	.4										.9	3.1
NE													
ENE	.1											.1	2.0
E	.4	.7										.5	2.8
ESE	.4	.6	.6									1.9	5.3
SE	.7	1.2	.7	.1								2.8	5.1
SSE	.9	2.3	.6	.9								4.7	6.3
S	3.5	5.2	3.1	1.6	.2	.1						13.7	6.4
SSW	2.3	4.7	2.5	1.9	.1							11.5	6.6
SW	2.3	5.3	3.8	2.1	.7							14.3	7.2
WSW	1.2	2.1	1.4	.9								5.4	6.4
W	1.2	2.9	.6									4.7	4.5
WNW	1.6	1.5	1.5	.4								4.9	5.5
NW	.7	2.5	2.8	2.1	.7	.2						9.1	9.1
NNW	.7	1.6	3.7	5.3	1.4	.2						12.2	11.1
VARBL													
CALM												5.7	
	14.5	32.1	22.2	17.4	3.5	.6						100.0	6.9

TOTAL NUMBER OF OBSERVATIONS 810

## SURFACE WINDS

70-835  
STATION

FATHER AF2 CA

73-81

APR

ALL WEATHER

1500-1700  
HOURS (L.S.T.)

**CONDITION**

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	.7	1.7	2.2	.9	.1							5.6	7.7
NNE	.4	.7	.7	.1								1.0	5.6
NE	.1	.1		.7								.5	7.8
ENE													
E	.1	.7										.4	4.3
ESE	1.7	.6	.5	.4								2.5	5.4
SE	.9	1.7	1.7	.4								4.0	5.9
SSE	.9	.7	1.7	.5	.2							3.5	7.5
S	3.7	3.5	3.8	.5	.1							9.9	5.6
SSW	7.7	5.1	4.2	2.6								14.8	6.8
SW	.6	2.7	5.3	5.4	.6							15.1	9.7
WSW	.6	1.7	2.3	2.1	.2							6.3	8.9
W	.7	1.2	1.7									3.0	5.4
WNW	1.7	2.7	1.5	.5								5.4	6.0
NW	1.9	2.5	4.3	1.6	.5							10.9	7.9
NNW	.7	2.7	4.7	4.2	1.1	.2						12.5	10.5
VARBL			.1									.1	9.0
CALM												4.7	
	10.0	26.9	30.8	10.4	3.7	.2						100.0	7.4

TOTAL NUMBER OF OBSERVATIONS 809

1  
JLEPAL CLIMATOLOGY BRANCH  
USAFETAC  
ALL WEATHER SERVICE/MAC

## SURFACE WINDS

### PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS)

724835 STATION 7ATHER AFB CA 73-P1 APR  
STATION NAME YEARS MONTH  
ALL WEATHER CLASS 1800-2000  
CONDITION HOURS (L.S.T.)

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 14	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	1.2	2.1	1.4	.5								5.8	5.9
NNE	.7											.2	2.5
NE	.1	.4	.7									.7	6.5
ENE		.1										.1	5.0
E	.5	.2	.2	.1								1.2	4.6
ESE	.7	.9	.6									2.2	4.9
SE	1.7	1.5	1.1	.1								4.3	4.7
SSE	.7	1.7	.7	.7								5.4	4.5
S	.1	4.4	1.5	.1								11.1	4.2
SSW	4.7	1.6	3.7	1.0	.1							20.1	5.2
SW	1.9	4.9	7.4	2.1	.1							16.4	7.4
WSW	.5	1.1	2.5	1.1	.1							5.3	6.2
W	.4	1.2	1.1	.1								2.7	6.2
WNW	.7	.4	.2	.2								1.9	5.1
NW	1.1	3.2	.9	.6								5.8	5.9
NNW	.5	2.3	2.6	1.4	.1							7.3	7.8
VARBL													
CALM												9.3	
	2.3	36.0	24.2	7.7	.5							100.0	5.4

TOTAL NUMBER OF OBSERVATIONS 810

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

## SURFACE WINDS

### PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS)

774835 MATHUR AFB CA 73-81 APR  
STATION MONTH  
ALL WEATHER YEARS  
CLASS  
CONDITION  
2100-2300  
HOURS (L.S.T.)

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	.5	1.3	1.7	.2	.1							3.7	6.6
NNE	.5	.7										1.2	3.5
NE	.4	.2										.6	2.8
ENE	.2	.2										.5	3.5
E	1.2	.7										2.0	2.9
ESE	3.6	7.5	.1									11.2	3.9
SE	3.7	13.8	1.2									18.8	4.4
SSE	3.1	6.4	1.4									10.9	4.6
S	4.7	5.8	2.1	.5								13.1	4.9
SSW	6.6	2.8	2.2	.4								12.2	4.3
SW	1.0	1.7	1.5	.4								4.6	5.9
WSW	.1	.5	.1	.1								.9	5.9
W	.1	.2	.1									.7	5.0
WNW	.5		.1									.6	3.4
NW	.6	1.2	.5	.1								2.5	5.1
NNW	.2	1.4	1.6	.5								3.7	7.2
VARBL													
CALM												12.8	
	27.3	45.6	12.0	2.2	.1							100.0	4.1

TOTAL NUMBER OF OBSERVATIONS 810

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AT-WEATHER SERVICE/MAC

## SURFACE WINDS

### PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS)

724635 HATHER AFB CA

77-81

APR

STATION

STATION NAME

YEARS

NORTH

ALL WEATHER

ALL

CLASS

MOON (L.S.T.)

CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 14	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	1.7	2.0	1.9	1.4	.1							6.4	7.6
NNE	.6	.3	.1	.0								.9	3.4
NE	.6	.2	.0	.0								.8	3.3
ENE	.3	.1										.4	2.9
E	.0	.5	.0	.0								1.5	3.2
ESE	3.3	3.7	.3	.1								7.4	3.8
SE	2.7	7.6	1.3	.2	.0							12.2	4.7
SSE	2.4	4.0	1.4	.4	.1							8.4	5.3
S	3.5	4.5	3.3	.9	.0	.0						12.1	5.7
SSW	2.6	4.0	2.4	.9	.1							9.9	5.8
SW	1.2	2.4	2.5	1.4	.2							7.8	7.5
WSW	.5	.7	.9	.6	.0							2.7	7.5
W	.7	.9	.4	.0								2.0	4.8
WNW	.7	.7	.5	.1								2.0	5.2
NW	.8	1.6	1.5	.7	.2	.0						4.9	7.5
NNW	.7	1.7	2.4	2.3	.4	.1						7.7	9.4
VARBL			.0									.0	9.0
CALM												12.7	
	22.8	35.0	18.9	9.1	1.3	.2						100.0	5.2

TOTAL NUMBER OF OBSERVATIONS

6478

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AFM WEATHER SERVICE/MAC

## SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

724835  
STATION

MATHER AFB CA  
STATION NAME

73-81  
YEARS

MAY  
MONTH

ALL WEATHER  
CLASS

0000-0200  
HOURS (L.S.T.)

CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	.6	1.3	1.7	.5								3.3	6.7
NNE	.6		.2									.8	3.9
NE	.7	.1										.8	2.4
ENE	.5											.5	2.5
E	1.1	.7										1.8	3.3
ESE	4.3	7.6										11.9	3.6
SE	7.2	15.1	1.4									23.7	4.1
SSE	6.7	10.2	3.8									20.0	4.7
S	3.6	7.5	3.3	.1								14.6	5.0
SSW	.7	1.9	1.4									4.1	5.8
SW		.1	.5	.1								.7	8.2
WSW	.1			.1								.2	7.5
W													
WNW		.1										.1	4.0
NW	.1	.6	.1	.2	.1							1.2	8.5
NNW	.1	.5	.6	.5		.2						1.9	10.3
VARBL													
CALM												14.3	
	25.6	45.8	12.4	1.6	.1	.2						100.0	4.0

TOTAL NUMBER OF OBSERVATIONS

837

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

SURFACE WINDS

724835  
STATION

MAIHER AFB CA  
STATION NAME

77-81  
YEARS

MAY  
MONTH

ALL WEATHER  
CLASS

0300-0500  
HOURS (L.S.T.)

CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 14	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	.3	1.7	2.7	.7								4.3	6.9
NNE	.1	.1	.1									.4	4.7
NE	.5	.1										.7	2.5
ENE	.5	.7										.7	3.0
E	1.2	1.7										2.2	2.9
ESE	7.7	6.5										13.5	3.3
SE	7.5	16.1	.8									24.5	4.0
SSE	5.3	9.8	2.2									16.2	4.5
S	2.6	4.8	3.6	.1								11.1	5.3
SSW	1.7	1.1	1.2	.1								3.3	6.0
SW	.5	.4	.1									1.0	3.8
WSW			.1									.1	9.0
W													
WNW		.1										.1	6.0
NW	.1	.7	.4	.4								1.4	7.4
NNW	.7	.4	.8	.5		.4						2.7	9.3
VARBL													
CALM												17.7	
	27.7	41.5	11.5	1.3		.4						100.0	3.8

TOTAL NUMBER OF OBSERVATIONS

837

JOURNAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

# SURFACE WINDS

## PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS)

STATION 93- PATTER AFB CA YEARS 1961 MONTH MAY  
STATION NAME PATTER AFB CA CLASS ALL WEATHER HOURS (L.S.T.) 0600-0800  
CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 53	≥ 56	%	MEAN WIND SPEED
N	.7	1.7	1.5	.6								3.8	7.2
NNE	.7											.6	1.4
NE	.4	.6										.6	2.8
ENE	.5	.7										1.0	3.0
E	.5	.6										.6	2.8
ESE	1.1	1.6										4.1	2.7
SE	1.4	4.6	.7									9.6	3.9
SSE	1.3	5.6	.7									13.3	4.8
S	1.6	8.4	1.7	.4								1.5	5.7
SSW	1.6	3.5	5.7	1.2								11.2	7.0
SW	.7	1.1	1.7	.7								3.3	6.1
WSW	.6	.7	.1	.1								.6	5.0
W	.3	.7	.1									.6	3.6
WNW	.6	.7										.7	2.3
NW	.7	.7	.6	.1	.7	.1						2.3	8.2
NNW	.7	1.7	2.2	1.6	.1	.7						6.8	8.6
VARBL													
CALM												19.5	
	21.3	23.7	22.1	4.5	.4	.6						100.0	4.5

TOTAL NUMBER OF OBSERVATIONS 837



1  
JUNIAL CLIMATOLOGY BRANCH  
AFETAC  
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

SURFACE WINDS

STATION NAME FAIRHUR AIRFIELD YEARS 77-81 MONTH MAY  
CLASS ALL WEATHER 5900-1100  
CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	1.0	1.0	2.3	1.1								6.3	7.0
NNE	.4	.6										.7	3.3
NE		.1										.1	4.0
ENE													
E	.2											.2	2.5
ESE	.8	.1	.1									.7	4.0
SE	.7	1.0										1.7	3.9
SSE	.1	2.7	1.4	.2								5.4	5.6
S	.4	4.7	5.9	.5								15.4	5.7
SSW	.5	5.6	5.7	1.0								16.7	6.7
SW	.5	3.7	3.1	1.8								12.2	6.1
WSW	1.4	1.0	.4	.1								3.5	4.3
W	.2	3.0	.7									7.0	3.8
WNW	1.7	1.0	1.1									5.7	4.1
NW	.0	3.0	1.6	.1		.1						6.7	5.3
NNW	.2	2.7	4.7	1.1	.8	.2						11.8	9.5
VARBL													
CALM												5.7	
	1.7	32.4	26.5	6.8	.3	.4						100.0	5.7

TOTAL NUMBER OF OBSERVATIONS 837

1  
 SIGNAL CLIMATOLOGY BRANCH  
 USFETAC  
 ALL WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF WIND  
 DIRECTION AND SPEED  
 (FROM HOURLY OBSERVATIONS)

SURFACE WINDS

STATION 10635 STATION NAME ALL WEATHER CLASS ALL WEATHER CONDITION  
 YEARS 77-81 MONTH MAY  
 1200-1400 HOURS (L.S.T.)

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	.1	1.7	1.4	1.1	.2		.1					4.9	9.2
NNE	.2	.7										1.0	3.9
NE	.2											.2	2.5
ENE	.1											.1	2.0
E	.1											.1	2.0
ESE		.2										.1	4.0
SE		.7	.2	.6								1.1	10.7
SSE	1.2	.7	.1									1.9	3.5
S	1.2	3.1	1.4	.4								6.6	5.6
SSW	1.4	4.5	4.5	2.7	.1							13.4	7.5
SW	1.7	7.6	6.5	2.6	.2							18.6	7.2
WSW	1.2	2.7	1.6	.7	.2							6.8	6.3
W	.2	5.1	2.3	.4								10.6	5.1
WNW	2.3	4.1	2.1	.6								10.8	6.0
NW	1.2	3.4	2.1	1.0								10.5	7.1
NNW	1.7	2.2	2.2	2.0	.5	.2						10.3	9.4
VARBL													
CALM												3.0	
	12.6	37.4	27.5	13.9	1.3	.2	.1					100.0	6.8

TOTAL NUMBER OF OBSERVATIONS 837

1  
 SIGNAL CLIMATOLOGY BRANCH  
 USAFETAC  
 AIR WEATHER SERVICE/MAC

# SURFACE WINDS

## PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS)

724936 STATION NAME FATHER ABN CA YEARS 77-81 MONTH MAY  
 ALL WEATHER CLASS 1500-1700 HOURS (L.S.T.)  
 CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	.1	1.0	1.0	1.1								4.8	7.9
NNE	.4	.1		.2								.7	7.2
NE	.1	.1		.1								.4	7.7
ENE				.1								.1	13.0
E		.1	.1									.2	7.5
ESE		.1										.1	6.0
SE	.1	.1										.2	3.0
SSE	.1	.1	.2									.6	5.8
S	.8	3.0	1.3	1.1								6.2	6.5
SSW	1.1	3.0	5.7	5.9		.1						16.7	9.0
SW	1.0	4.4	8.6	7.4	1.0							22.6	9.4
WSW	1.0	2.2	2.6	1.7	.1							8.1	7.6
W	.1	3.5	2.6	.2								8.5	5.5
WNW	1.4	3.2	2.0	.4								7.0	5.8
NW	.1	3.2	4.7	2.0	.2	.1						12.3	7.7
NNW	.7	2.3	1.6	3.2	.6	.1						8.4	9.6
VARBL													
CALM												3.0	
	17.3	27.5	31.4	23.4	1.9	.4						100.0	7.8

TOTAL NUMBER OF OBSERVATIONS 837

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAG

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

SURFACE WINDS

STATION 0634 MATHER AFB CA 77-81 MAY  
STATION NAME YEARS MONTH  
ALL WEATHER  
CLASS  
CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	1.3	.2	1.3	.5	.2							4.2	6.8
NNE		.5										.5	5.5
NE	.4	.2	.5									1.1	5.4
ENE		.4										.4	4.7
E	.2		.1									.6	3.2
ESE	.7	1.2										1.7	3.6
SE	.2	.5										.7	3.7
SSE	.7	1.2	.2									1.9	4.4
S	.2	5.5	2.5	.4								9.2	5.8
SSW	2.4	11.2	13.5	4.5								28.4	7.2
SW	.3	6.1	13.9	6.2	.4							28.8	8.3
WSW	.4	.6	1.7	.7								3.3	8.0
W	1.2	.5	.6									2.6	4.3
WNW	1.2	1.4	.1									2.5	4.0
NW	1.4	1.2	1.2	.1								4.4	4.6
NNW		1.2	2.3	1.8	.1							5.9	9.0
VARBL													
CALM												3.8	
	13.3	33.3	34.6	14.2	.7							100.0	6.7

TOTAL NUMBER OF OBSERVATIONS 837

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

# SURFACE WINDS

## PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS)

700035      MATHER AFB CA      73-81      MAY  
STATION      STATION NAME      YEARS  
ALL WEATHER  
CLASS  
CONDITION  
2100-2300  
HOURS (L.S.T.)

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 14	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	.2	1.2	.2	.2								2.5	4.8
NNE	.7	.6										1.3	3.0
NE	.7											.2	2.5
ENE		.1										.1	5.0
E	.5	.6										1.1	3.4
ESE	.7	5.5										7.5	4.0
SE	2.3	13.4	.5									17.2	4.3
SSE	4.9	9.3	2.7	.1								16.2	4.4
S	4.5	12.1	4.1	.4								21.3	5.1
SSW	5.7	5.7	1.8	.2								13.0	4.3
SW	1.7	2.0	.5	.1								4.3	4.1
WSW	.1	.4	.4									.8	5.7
W	.1	.5	.1									.7	5.0
WNW	.4	.4	.1									.8	4.4
NW		.7	.4	.1								1.2	7.2
NNW	.5	1.2	.5	.1								2.3	5.8
VARBL													
CALM												9.3	
	21.2	53.6	10.5	1.3								106.0	4.1

TOTAL NUMBER OF OBSERVATIONS      837

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

# SURFACE WINDS

## PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS)

STATION WATHER AFB CA STATION NAME WATHER AFB CA YEARS 73-81 MONTH MAY  
STATION WATHER AFB CA STATION NAME WATHER AFB CA YEARS 73-81 MONTH MAY  
CLASS ALL WEATHER CLASS ALL  
CONDITION ALL CONDITION ALL

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	.2	1.3	1.4	.7	.1		.3					4.3	7.2
NNE	.4	.3	.7	.7								.7	3.9
NE	.3	.1	.1	.7								.5	3.8
ENE	.7	.1		.7								.4	3.6
E	.5	.3	.7									.9	3.3
ESE	2.2	2.7	.7									5.0	3.5
SE	2.9	6.3	.5	.1								9.8	4.2
SSE	3.7	4.5	1.6	.9								9.4	4.6
S	2.9	6.7	3.9	.4								13.2	5.5
SSW	3.7	4.5	4.5	2.1	.5	.7						13.4	7.0
SW	1.5	3.2	4.3	2.3	.2							11.4	7.7
WSW	.7	.9	.8	.4	.7							2.9	6.7
W	1.3	1.6	.8	.1								3.8	4.8
WNW	.7	1.5	.8	.1								3.5	5.2
NW	1.5	1.4	1.5	.6	.1	.7						5.0	6.8
NNW	.7	1.5	1.9	1.7	.3	.2						6.3	9.2
VARBL													
CALM												9.5	
	21.3	37.0	22.1	8.6	.7	.2	.0					100.0	5.4

TOTAL NUMBER OF OBSERVATIONS 6696

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

SURFACE WINDS

72-035 STATION NAME MATHER AFB CA YEARS 73-81  
STATION MONTH JUN  
CLASS ALL WEATHER  
CONDITION  
0000-0200 HOURS (L.S.T.)

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 14	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	.1	.1	1.7	.7								2.5	8.9
NNE	.4	.1	.1									.6	4.4
NE	.4	.1										.5	2.3
ENE	.4	.1										.5	2.8
E	.2	.7	.1									1.1	3.9
ESE	3.7	5.3										9.5	3.6
SE	6.8	14.3	.7									21.9	4.0
SSE	6.4	15.2	4.7									25.6	4.7
S	4.9	8.5	4.4	.2								18.1	5.0
SSW	1.6	1.4	1.0	.5								4.4	5.2
SW	.7	.2	.4	.2								1.4	6.7
WSW		.1										.1	6.0
W		.1										.1	4.0
WNW													
NW		.4	.1									.5	6.3
NNW	.4	.9	1.7	.9								3.1	7.9
VARBL													
CALM												10.1	
	25.8	48.6	12.8	2.6								100.0	4.3

TOTAL NUMBER OF OBSERVATIONS 810

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

# SURFACE WINDS

## PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS)

STATION 74635 STATION NAME MATHER AFB CA YEARS 77-81 MONTH JUN  
CLASS ALL WEATHER HOURS 0300-0500  
CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	1.0	.0	1.0	.6								4.0	6.6
NNE	.1											.1	2.0
NE	.5											.5	2.5
ENE	.6											.6	2.4
E	1.0											1.0	2.4
ESE	4.8	4.0										8.8	3.3
SE	7.2	15.6	1.2									24.0	4.1
SSE	.1	1.0	4.7									19.3	5.1
S	4.6	8.0	4.1	.1								16.8	4.9
SSW	2.2	1.0	1.1	.2								4.6	5.0
SW	.2	.2	.2									.7	5.0
WSW	.4		.1									.5	4.0
W													
WNW		.2										.2	4.5
NW	.4	.4		.1								.9	5.0
NNW		.6	1.4	1.2								3.2	9.3
VARBL													
CALM												14.9	
	27.1	41.4	14.3	2.3								100.0	4.0

TOTAL NUMBER OF OBSERVATIONS 810



GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AT WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

SURFACE WINDS

12 835 STATION NAME PATHER AFB CA YEARS 73-81 MONTH JUN  
STATION CLASS ALL WEATHER  
CONDITION

3600-0800  
HOURS (L.S.T.)

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 14	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	.8	1.0	1.2	1.4	.2							5.1	8.4
NNE	.6											.4	2.3
NE	.2											.2	1.0
ENE	.9											.9	1.4
E	1.1	.2										1.4	2.6
ESE	2.2	.3	.1									3.2	3.0
SE	1.1	3.3	.6									7.5	3.9
SSE	2.2	5.6	3.8	.1								12.6	5.4
S	4.6	9.9	11.6	1.1								26.2	6.3
SSW	1.1	5.1	4.8	1.2								14.1	6.2
SW	1.1	.6	1.0	.9								4.4	7.3
WSW	1.2	.4	.1									1.7	3.1
W	.1											.6	1.8
WNW	.1											.6	1.6
NW	.7	1.0	.2									2.0	4.4
NNW	.2	1.7	2.1	1.5								6.2	7.8
VARBL													
CALM												13.0	
	24.1	22.0	26.5	6.2	.2							100.0	5.0

TOTAL NUMBER OF OBSERVATIONS 810

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

# SURFACE WINDS

## PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS)

72-837 STATION 72-837 NAME NATHAN AFB CA YEARS 77-81 MONTH JUN  
STATION NAME CLASS ALL WEATHER HOURS 900-1100  
CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	1.4	1.2	1.6	1.7	.4							5.6	7.8
NNE	.9	.1	.1									.5	4.8
NE													
ENE	.1											.1	2.0
E	.2											.2	2.5
ESE	.4	.1										.5	2.5
SE	.2	.5										.7	4.0
SSE	1.1	1.1	.4									2.6	4.0
S	.3	5.3	6.7	.9								15.2	6.5
SSW	1.9	5.7	8.9	1.4	.1							17.9	7.2
SW	3.8	5.9	4.9	.9	.2							15.8	5.9
WSW	.1	1.6	1.2									5.1	4.6
W	3.2	2.2	.7									6.2	3.8
WNW	.3	2.7	.4									6.4	3.7
NW	.2	3.3	2.3	.9	.2							9.6	5.5
NNW	.2	1.5	2.6	3.2	.4	.2						9.3	9.7
VARBL													
CALM												4.3	
	24.7	31.7	29.5	8.1	1.4	.2						100.0	6.0

TOTAL NUMBER OF OBSERVATIONS 810

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

# SURFACE WINDS

## PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS)

124635  
STATION

MATHUR AFB CA  
STATION NAME

73-81  
YEARS

JUN  
MONTH

ALL WEATHER  
CLASS

1200-1400  
HOURS (L.S.T.)

CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 53	≥ 56	%	MEAN WIND SPEED
N	.7	2.	1.6	1.0	.1							5.4	7.3
NNE	.1	.7										.4	4.0
NE	.1											.1	2.0
ENE													
E													
ESE		.1	.1									.2	6.5
SE	.1											.1	1.0
SSE		.7	.2	.1								1.1	6.3
S	1.1	1.9	1.7	.6								5.3	6.4
SSW	2.3	3.8	5.9	2.6	.4							15.1	7.6
SW	2.8	6.7	8.9	2.5	.2							21.1	7.0
WSW	1.9	3.0	2.6	.5								7.9	5.9
W	3.3	5.8	2.1	.1								11.5	4.7
WNW	2.1	4.7	2.3	.6								9.0	5.5
NW	.7	3.7	4.1	2.1	.7							11.4	8.5
NNW	.6	2.7	3.1	1.6	1.7	.4	.1					9.5	9.5
VARBL													
CALM												1.9	
	16.0	34.7	32.7	11.7	2.5	.4	.1					100.0	6.8

TOTAL NUMBER OF OBSERVATIONS

810

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AFW WEATHER SERVICE/MAC

## SURFACE WINDS

### PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS)

730835  
STATION

MATHER AFB CA

STATION NAME

73-81

YEARS

JUN  
MONTH

1500-1700  
HOURS (L.S.T.)

ALL WEATHER

CLASS

CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	.1	1.5	.7	.6		.1						3.2	8.3
NNE													
NE													
ENE													
E	.1											.1	3.0
ESE		.1	.1									.2	6.5
SE			.1									.1	10.0
SSE		.2	.1									.4	5.3
S	.9	1.5	1.4									3.7	5.8
SSW	1.0	3.6	5.1	3.5	.2							16.4	8.6
SW	1.7	4.8	10.1	10.6	1.1							28.4	9.8
WSW	1.4	3.8	2.8	2.2								10.2	7.3
W	1.7	4.1	2.0									7.8	5.1
WNW	1.0	4.1	2.8	.7								8.6	6.4
NW	1.0	4.6	3.6	1.2	.5							10.9	7.6
NNW	.1	2.5	2.3	2.1	.6	.6						8.3	10.5
VARBL													
CALM												1.6	
	2.1	30.7	34.3	21.0	2.5	.7						100.0	8.1

TOTAL NUMBER OF OBSERVATIONS

810

GENERAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

# SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

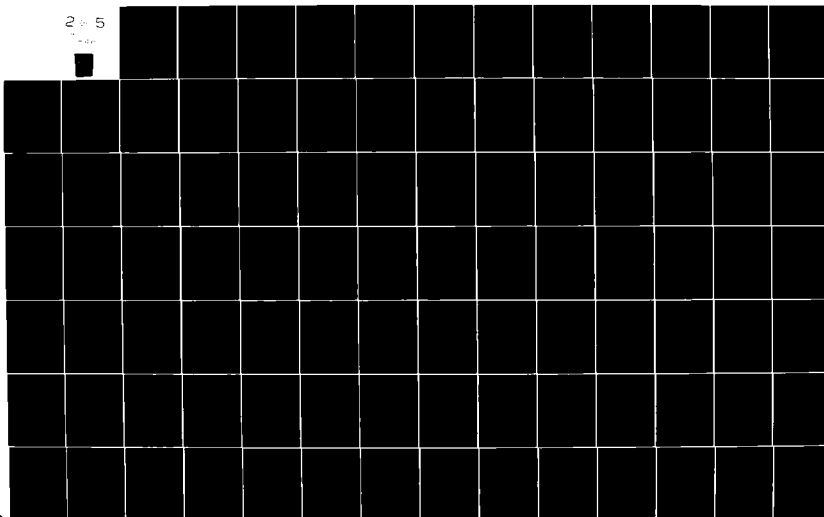
STATION 124835 STATION NAME WATHAM AFB GA YEARS 73-81 MONTH JUN  
CLASS ALL WEATHER MONTH 1800-2000  
CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 14	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	1.7	1.0	1.1	.7								4.6	6.3
NNE	.0											.2	2.0
NE	.1											.1	2.0
ENE													
E	.1											.1	3.0
ESE	.1											.1	3.0
SE													
SSE	.4	.1	.2									.7	4.7
S	.4	3.3	1.9	.4								6.2	6.1
SSW	2.2	7.7	15.1	4.8	.4							30.2	8.1
SW	.9	9.1	14.9	5.5	.2							32.5	8.8
WSW	.0	2.1	2.0	1.7								6.1	8.2
W	.2	1.2	.2									2.3	5.1
WNW	.0	1.7	.4									3.0	4.7
NW	.9	2.0	1.1	.4								4.3	6.1
NNW	.1	2.2	2.3	1.0	.7							6.4	9.0
VARBL													
CALM												3.1	
	1.6	30.1	39.2	17.6	1.4							100.0	7.6

TOTAL NUMBER OF OBSERVATIONS 809

AD-A118 461 AIR FORCE ENVIRONMENTAL TECHNICAL APPLICATIONS CENTER--ETC F/G 4/2  
MATHER AFB, CALIFORNIA. REVISED UNIFORM SUMMARY OF SURFACE WEAT--ETC(11)  
JUN 82  
UNCLASSIFIED USAFETAC/DS-82/033 SBI-AD-E850 192 NL

2-5



GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AI WEATHER SERVICE/MAC

# SURFACE WINDS

## PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS)

724835  
STATION

MATHER AFB CA  
STATION NAME

73-81  
YEARS

JUN  
MONTH

ALL WEATHER  
CLASS

2100-2300  
HOURS (L.S.T.)

CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	.2	.5	1.1	.1								2.0	7.4
NNE	.1											.1	3.0
NE	.1	.1										.2	3.5
ENE													
E	.4	.5										.9	3.7
ESE	1.6	3.7										5.3	3.9
SE	3.7	10.1	.1									13.2	4.2
SSE	4.9	9.5	1.4	.1								15.9	4.5
S	7.4	15.4	6.5	.1								29.5	5.0
SSW	4.2	4.9	2.2	.6								12.0	4.9
SW	2.7	3.7	2.0	.1								7.0	5.3
WSW	.4	.6	.2									1.2	5.0
W	.1	.5										.6	3.8
WNW	.1	.1										.2	3.5
NW	.1	.6	.5	.1								1.4	7.4
NNW	.1	.2	1.7	.9								2.2	9.8
VARBL													
CALM												8.1	
	24.8	49.9	15.1	2.1								100.0	4.5

TOTAL NUMBER OF OBSERVATIONS

610

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
A1- WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

SURFACE WINDS

724835  
STATION

MATHER AFB CA  
STATION NAME

73-81  
YEAR

JUN  
MONTH

ALL WEATHER  
CLASS

ALL  
MOON (L.E.T.)

CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 14	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥56	%	MEAN WIND SPEED
N	.0	1.2	1.2	.8	.1	.0						4.0	7.6
NNE	.2	.1	.0									.3	3.6
NE	.2	.1										.2	2.3
ENE	.2	.1										.3	2.1
E	.4	.2	.0									.6	3.1
ESE	1.6	1.8	.0									3.5	3.5
SE	2.5	5.5	.4									8.4	4.1
SSE	2.5	5.4	1.9	.0								2.3	4.9
S	3.3	6.6	4.8	.4								15.1	5.6
SSW	2.3	4.1	5.9	1.9	.1							14.3	7.2
SW	1.6	3.7	5.4	3.0	.2							13.9	8.0
WSW	.7	1.5	1.1	.6								4.1	6.3
W	1.2	1.8	.6	.0								3.6	4.6
WNW	1.1	1.6	.7	.2								3.5	5.2
NW	.9	2.7	1.5	.6	.2							5.1	7.0
NNW	.4	1.6	2.0	1.5	.3	.2	.0					6.0	9.3
VARBL													
CALM												7.1	
	20.0	37.1	25.6	9.0	1.0	.2	.0					104.0	8.8

TOTAL NUMBER OF OBSERVATIONS

6979



GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

# SURFACE WINDS

## PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS)

STATION 724835 MATHER AFB CA STATION NAME 73-81 YEARS JUL MONTH  
ALL WEATHER CLASS 0000-0200 HOURS (L.S.T.)  
CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N				.4								.4	12.0
NNE													
NE													
ENE			.1									.1	7.0
E	.2	.2										.5	3.0
ESE	4.2	3.2										7.4	3.2
SE	9.4	15.2	.1									24.7	3.7
SSE	9.9	13.9	2.7									26.5	4.1
S	7.3	13.7	3.6	.1								24.7	4.6
SSW	1.7	2.2	1.6	.1								5.5	5.2
SW	.2	.4	.2	.1								1.0	6.1
WSW			.1									.1	8.0
W	.1											.1	2.0
WNW													
NW													
NNW													
VARBL													
CALM												9.0	
	33.1	48.7	8.5	.7								100.0	3.8

TOTAL NUMBER OF OBSERVATIONS 837

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
ALL WEATHER SERVICE/MAC

# SURFACE WINDS

## PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS)

724835  
STATION

MATHER AFB CA  
STATION NAME

73-81  
YEARS

JUL  
MONTH

ALL WEATHER  
CLASS

0300-0500  
HOURS (L.S.T.)

CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 14	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	.1	.2	.4									.7	6.5
NNE	.2											.2	1.0
NE	.2											.2	1.5
ENE	.2											.2	2.5
E	.6	.4										1.0	3.0
ESE	4.2	4.1										8.2	3.3
SE	11.6	16.1	.1									26.9	3.7
SSE	7.9	10.5	1.4									19.8	4.0
S	9.1	11.1	2.3	.1								22.6	4.2
SSW	2.6	2.7	.5									5.9	4.3
SW	.1	.4	.6	.1								1.2	7.1
WSW	.4											.4	2.3
W	.2		.1									.4	4.3
WNW													
NW													
NNW			.1									.1	7.0
VARBL													
CALM												12.2	
	36.6	45.5	5.5	.2								100.0	3.4

TOTAL NUMBER OF OBSERVATIONS

837

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

# SURFACE WINDS

## PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS)

724835  
STATION

MATHER AFB CA  
STATION NAME

73-81  
YEARS

JUL  
MONTH

ALL WEATHER  
CLASS

0600-0800  
HOURS (L.S.T.)

CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	.5	.6	.2	.4								1.7	6.2
NNE													
NE													
ENE	.2											.2	1.5
E	1.0	.1										1.1	2.3
ESE	1.7	.4										2.0	2.5
SE	2.7	3.1	.2									6.1	3.8
SSE	4.7	8.4	1.6									14.6	4.3
S	8.2	14.1	7.5	.6								30.5	5.1
SSW	4.9	7.2	5.3	.8								18.2	5.7
SW	1.8	2.2	2.6	.5								7.0	5.9
WSW	.2	.8	.1	.1								1.3	5.4
W	.4											.4	1.7
WNW	.4											.4	2.0
NW	.4	.2										.6	3.6
NNW	.2	.2										.5	3.8
VARBL													
CALM												15.5	
	27.2	37.3	17.6	2.4								100.0	4.2

TOTAL NUMBER OF OBSERVATIONS

637

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

## SURFACE WINDS

### PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS)

724835  
STATION

MATHER AFB CA  
STATION NAME

73-81  
YEARS

JUL  
MONTH

ALL WEATHER  
CLASS

0900-1100  
HOURS (L.S.T.)

CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 14	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	.7	.4	.4	.5								1.9	6.8
NNE	.4	.2										.6	3.2
NE													
ENE	.2	.1										.4	2.7
E	.2	.1										.5	3.0
ESE		.1										.1	6.0
SE	.2	.6	.1									1.0	4.1
SSE	.7	1.2	.7									2.6	5.0
S	3.9	8.7	4.4	.2								16.6	5.3
SSW	3.5	10.9	7.2	2.0								23.5	6.2
SW	4.7	7.2	5.6	.5								17.9	5.6
WSW	3.3	3.1	2.0	.4								8.8	5.0
W	4.1	2.6	.1	.1								6.9	3.8
WNW	3.7	1.9	.1									5.0	3.1
NW	2.3	1.6	.6									4.4	3.9
NNW	1.4	1.3	.6	.1								3.5	4.4
VARBL													
CALM												6.2	
	28.7	39.4	21.9	3.8								100.0	4.9

TOTAL NUMBER OF OBSERVATIONS 837

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

# SURFACE WINDS

## PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS)

724835  
STATION

MATHER AFB CA  
STATION NAME

73-81  
YEARS

JUL  
MONTH

ALL WEATHER  
CLASS

1200-1400  
HOURS (L.S.T.)

CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	.9	1.1	.6	.4								2.9	5.8
NNE		.4										.4	5.3
NE	.1											.1	3.0
ENE													
E			.2									.2	8.5
ESE	.1		.1									.2	4.5
SE		.2										.2	5.0
SSE	.1	.4	.1									.6	5.2
S	.4	1.7	1.4	.4								4.1	6.5
SSW	1.2	6.2	5.9	1.3								14.6	6.9
SW	2.5	8.9	7.9	1.7								20.9	6.7
WSW	.3	4.7	5.3	.5								12.7	6.3
W	4.9	8.3	3.3	.5								17.0	5.0
WNW	3.1	4.9	2.0									10.0	4.7
NW	1.2	5.5	1.8									8.5	5.2
NNW	1.4	1.1	2.0	.1								4.7	5.7
VARBL													
CALM												2.9	
	18.2	43.4	30.7	4.8								100.0	5.8

TOTAL NUMBER OF OBSERVATIONS

836

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

## SURFACE WINDS

### PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS)

724835

MATHER AFB CA

73-81

JUL

STATION

STATION NAME

YEARS

MONTH

ALL WEATHER

1500-1700

CLASS

HOURS (L.S.T.)

CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 14	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	.5	1.0	.7	.2								2.5	6.0
NNE			.1									.1	7.0
NE													
ENE													
E			.1									.1	7.0
ESE													
SE		.1										.1	4.0
SSE	.1	.2	.2									.6	6.2
S	.2	.8	.8	.4	.1							2.4	7.8
SSW	.5	4.8	8.9	3.5								17.6	8.2
SW	1.4	6.2	13.9	8.5	.1							30.1	8.7
WSW	1.4	6.5	5.1	.4								13.4	6.2
W	2.0	6.7	4.1	.4								12.4	5.8
WNW	1.3	5.1	1.9	.2								8.6	5.6
NW	1.4	3.3	2.8	.1								7.7	5.8
NNW	.6	1.4	.4	.2								2.6	5.9
VARS													
CALM												1.7	
	9.7	35.5	39.0	13.9	.2							100.0	7.1

TOTAL NUMBER OF OBSERVATIONS

836

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

# SURFACE WINDS

## PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS)

724835  
STATION

MATHER AFB CA  
STATION NAME

73-81  
YEARS

JUL  
MONTH

ALL WEATHER

1800-2000

CLAS

HOURLY (L.S.T.)

CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	.1	.4	.5	.2								1.2	7.3
NNE													
NE													
ENE	.1											.1	3.0
E	.1											.1	2.0
ESE		.2										.2	4.5
SE	.1	.6										.7	4.0
SSE	.5	.2										.7	3.0
S	2.3	6.7	2.4	.1								11.5	5.1
SSW	3.1	11.4	15.5	3.6								33.6	7.1
SW	1.3	9.2	17.9	7.0								35.5	8.2
WSW	.5	2.3	2.2	.5								5.4	7.0
W	1.3	1.6	.5									3.3	4.5
WNW	.3	1.4	.4									2.6	4.5
NW	.1	1.2	.1									1.2	5.0
NNW	.4	.5	.4									1.2	4.9
VARBL													
CALM												2.6	
	10.8	35.4	39.8	11.5								100.0	6.8

TOTAL NUMBER OF OBSERVATIONS

837

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

# SURFACE WINDS

## PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS)

STATION 724835 STATION NAME MATHER AFB CA YEARS 73-81 MONTH JUL  
CLASS ALL WEATHER  
CONDITION

2100-2300  
NOVBB (L.S.T.)

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 14	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N		.1										.1	5.0
NNE	.1											.1	2.0
NE													
ENE													
E	.1											.1	3.0
ESE	2.4	3.2										5.6	3.5
SE	5.7	11.2										17.0	3.8
SSE	7.5	11.6	2.2									21.3	4.3
S	6.2	16.8	5.9	.2								29.2	5.0
SSW	6.2	6.3	3.0	.6								16.1	4.8
SW	1.4	2.3	.8									4.5	4.6
WSW		.1	.2	.1								.5	8.5
W		.4										.4	4.7
WNW	.1											.1	3.0
NW		.1	.1									.2	6.0
NNW	.1		.1									.2	4.5
VARBL													
CALM												4.5	
	37.0	52.2	12.3	1.0								100.0	4.3

TOTAL NUMBER OF OBSERVATIONS 837



GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

# SURFACE WINDS

## PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS)

72-235  
STATION

MATHER AFB CA

STATION NAME

73-81

YEARS

JUL

MONTH

ALL WEATHER

CLASS

ALL

HOURS (L.S.T.)

CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	.4	.0	.3	.3								1.4	6.5
NNE	.1	.1	.1									.2	3.6
NE	.0											.0	2.0
ENE	.1	.0	.0									.1	2.9
E	.4	.1	.0									.4	3.3
ESE	1.6	1.4	.0									3.0	3.3
SE	3.6	5.9	.1									9.6	3.7
SSE	3.9	5.6	1.1									10.8	4.2
S	4.7	9.0	3.5	.3	.0							17.7	5.0
SSW	3.0	6.6	6.0	1.5								16.9	6.4
SW	1.7	4.6	6.2	2.3	.0							14.8	7.4
WSW	1.0	2.2	1.9	.2								5.3	6.1
W	1.6	2.3	1.0	.1								5.1	4.9
WNW	1.1	1.7	.6	.0								3.3	4.7
NW	.7	1.6	.7	.0								2.8	5.1
NNW	.5	.6	.4	.1								1.6	5.2
VARBL													
CALM												6.8	
	24.3	42.2	21.9	4.8	.0							100.0	5.0

TOTAL NUMBER OF OBSERVATIONS

6694

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

SURFACE WINDS

STATION 14R35 STATION NAME FATHER AND CA YEARS 73-81 MONTH AUG  
CLASS ALL WEATHER HOURS 0000-0200  
CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	.1	.1										1.0	3.6
NNE		.1										.1	5.0
NE													
ENE	.1											.1	2.0
E	.1	.1										.6	4.0
ESE	4.1	5.1	.1									9.3	3.5
SE	17.6	15.7	.4									28.8	3.6
SSE	2.0	12.3	2.3									23.5	4.1
S	5.0	12.5	4.4	.1								22.1	4.9
SSW	1.2	2.5	1.2	.1								5.0	5.1
SW	.1	.2										.4	3.0
WSW	.1	.1										.2	3.0
W													
WNW	.1	.1										.2	3.0
NW	.1	.1	.2									.7	5.3
NNW	.1	.1	.1									.4	5.0
VARBL													
CALM												7.5	
	33.6	49.9	8.7	.2								100.0	3.8

TOTAL NUMBER OF OBSERVATIONS 837

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

# SURFACE WINDS

## PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS)

724835  
STATION

MATHER AFB CA  
STATION NAME

73-81  
YEARS

AUG  
MONTH

ALL WEATHER  
CLASS

0300-0500  
HOURS (L.S.T.)

CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	.5	.5										1.1	3.8
NNE	.2											.2	2.5
NE	.1											.1	2.0
ENE	.1											.1	3.0
E	.5											.5	2.0
ESE	5.5	4.5										10.0	3.3
SE	13.4	14.2	.2									27.8	3.5
SSE	11.3	9.9	1.7									21.9	3.8
S	6.5	10.3	3.0	.1								19.8	4.5
SSW	1.3	2.5	.7	.1								4.7	4.8
SW	.1	.5										.6	4.4
WSW	.1											.1	2.0
W	.5											.5	2.0
WNW	.1											.1	2.0
NW	.2		.1									.4	4.3
NNW		.1	.1									.2	6.5
VARBL													
CALM												11.8	
	39.4	42.7	5.9	.2								100.0	3.4

TOTAL NUMBER OF OBSERVATIONS

837

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

## SURFACE WINDS

### PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS)

024835

FATHER AFB CA

73-81

AUG

STATION

STATION NAME

YEAR

MONTH

ALL WEATHER

0600-0800

CLASS

NOON (L.S.T.)

CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 14	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	.3	.1	.1									.7	3.0
NNE	.2	.1										.4	3.0
NE	.5											.5	2.8
ENE		.2										.2	4.0
E	.5	.2										.7	2.7
ESE	.7	1.1										3.7	3.0
SE	.5	4.7	.4									11.5	3.3
SSE	7.6	6.9	1.1									15.7	3.8
S	7.5	14.2	6.9	.6								29.3	5.1
SSW	2.4	7.0	6.1	.8								16.4	6.3
SW	1.1	1.3	1.0									3.3	5.3
WSW	.7											.7	2.2
W	.1											.1	2.0
WNW													
NW	.1	.2	.2									.6	4.8
NNW	.2	.6	.2	.1								1.2	6.0
VARBL													
CALM												15.1	
	30.7	36.7	16.0	1.6								100.0	9.0

TOTAL NUMBER OF OBSERVATIONS

837

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

# SURFACE WINDS

## PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS)

724835  
STATION

MATHER AFB CA  
STATION NAME

73-81  
YEARS

AUG  
MONTH

ALL WEATHER  
CLASS

0900-1100  
HOURS (LST)

CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 53	≥ 54	%	MEAN WIND SPEED
N	1.2	.5	.1									1.8	3.0
NNE	.1	.4										.5	4.3
NE		.1										.1	4.0
ENE	.1											.1	3.0
E	.5											.5	2.3
ESE	.2	.1										.4	3.0
SE	1.0	.4	.2									1.6	3.7
SSE	.6	2.7	.5									3.1	4.8
S	3.8	9.4	4.7	.4								18.3	6.3
SSW	3.9	13.4	7.8	1.6								23.7	6.1
SW	3.9	8.8	6.5	1.3								19.5	6.0
WSW	1.3	1.3	1.1	.1								3.8	5.1
W	2.6	3.1	.6									6.6	3.7
WNW	1.4	1.2	.2									2.9	3.6
NW	3.2	1.3	1.1	.6								5.1	5.4
NNW	1.7	.8	.2	.2								3.0	4.6
VARBL													
CALM												9.2	
	23.8	39.9	22.9	4.2								100.0	4.8

TOTAL NUMBER OF OBSERVATIONS

837

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

SURFACE WINDS

724835  
STATION

MATHER AFB CA

STATION NAME

73-81

YEARS

AUG

MONTH

ALL WEATHER

CLASS

1200-1400

MOON (L.S.T.)

CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 14	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	.8	.7	.1									1.7	3.7
NNE	.5	.5	.1									1.1	4.1
NE	.1	.1										.2	2.5
ENE	.1	.1										.2	3.0
E	.2	.1										.4	3.7
ESE													
SE		.1										.1	4.0
SSE	.2	.4										.6	4.0
S	.4	1.9	2.7	.2								5.3	6.8
SSW	1.7	5.7	8.0	2.3								17.7	7.3
SW	3.0	9.1	9.2	1.4								22.7	6.5
WSW	2.2	4.9	3.8	.2								11.1	8.7
W	3.2	8.7	3.1									15.1	8.1
WNW	2.6	5.4	1.3	.1								9.4	9.8
NW	2.3	3.8	1.6	.2	.1							8.0	6.3
NNW	.5	1.9	.8	.4								3.6	6.0
VARBL													
CALM												2.9	
	17.8	43.5	30.8	4.9	.1							100.0	5.7

TOTAL NUMBER OF OBSERVATIONS

837

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

## SURFACE WINDS

### PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS)

72-835  
STATION

MATHER AFB CA

STATION NAME

73-81

YEARS

AUG

MONTH

ALL WEATHER

CLASS

1500-1700

HOURS (L.S.T.)

CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	.7	.5	.5	.1	.1							1.4	7.3
NNE	.1	.5										.6	4.0
NE		.1										.1	6.0
ENE													
E		.1										.1	5.0
ESE													
SE	.1	.1										.2	3.5
SSE		.1	.1									.2	7.0
S	.6	1.9	2.2	.2								4.9	6.5
SSW	1.1	4.7	17.5	3.5								20.0	8.3
SW	1.6	7.8	13.6	5.7	.4							29.0	8.4
WSW	1.7	3.9	4.5	.7								10.5	6.7
W	2.6	6.5	2.3	.1								11.5	5.2
WNW	2.8	5.1	.7	.2								8.6	4.8
NW	1.6	4.4	.8	.1								6.9	4.8
NNW	1.4	1.1	.4	.8								3.7	6.0
VARBL													
CALM												2.2	
	13.1	37.7	35.6	11.6	.5							100.0	6.8

TOTAL NUMBER OF OBSERVATIONS

837

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

# SURFACE WINDS

## PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS)

74835  
STATION

ATHER AFB CA

STATION NAME

73-81

YEARS

AUG

MONTH

ALL WEATHER

CLASS

1800-2000

BORE (L.S.T.)

CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 14	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	.1	.4	.6									1.1	6.2
NNE	.2	.1										.4	3.3
NE		.2										.2	5.5
ENE													
E													
ESE	.1	.1										.2	3.5
SE	.4	.1	.1									.6	4.4
SSE	.4	.7										1.1	4.2
S	2.3	7.5	3.6	.2								13.6	5.5
SSW	5.4	13.5	17.0	2.3								38.1	6.5
SW	1.4	9.4	13.0	3.9	.1							28.0	7.7
WSW	.7	1.6	2.0	.5								4.8	6.9
W	1.3	1.3	.2									2.9	3.8
WNW	.8	.6	.2									1.7	3.9
NW	.8	1.7	.2									2.0	4.4
NNW	.6	.4	.6	.4								1.9	6.8
VARBL													
CALM												3.5	
	14.6	36.9	37.6	7.3	.1							100.0	6.3

TOTAL NUMBER OF OBSERVATIONS

837



GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
ALD WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

SURFACE WINDS

724835  
STATION

MATHER AFB CA  
STATION NAME

73-81  
YEARS

AUG  
MONTH

ALL WEATHER  
CLASS

2100-2300  
HOURS (L.S.T.)

CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	.1	.7	.1									1.0	4.6
NNE	.1	.1										.2	3.5
NE													
ENE	.1											.1	2.0
E	.6											.6	2.2
ESE	3.2	3.2										6.5	3.4
SE	6.7	13.3	.1									20.1	3.8
SSE	9.3	12.3	1.7									23.3	4.0
S	6.8	14.3	4.2									25.8	4.7
SSW	4.6	4.7	1.8									11.2	4.2
SW	2.4	1.5		.4								4.5	4.1
WSW	.7	.1										.4	3.0
W	.1		.1									.2	5.0
WNW	.1											.1	2.0
NW		.1										.1	6.0
NNW	.1	.5	.4									1.0	5.3
VARBL													
CALM												4.9	
	34.8	51.1	8.8	.4								100.0	3.9

TOTAL NUMBER OF OBSERVATIONS

837

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AT: WEATHER SERVICE/MAC

## SURFACE WINDS

### PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS)

724835  
STATION

MATHER AFB CA  
STATION NAME

73-81  
YEARS

AUG  
MONTH

ALL WEATHER  
CLASS

ALL  
WINDS (L.S.T.)

CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 14	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	.5	.5	.2	.0	.0							1.2	4.4
NNE	.2	.2	.0									.4	3.8
NE	.1	.1										.2	3.5
ENE	.1	.1										.1	3.0
E	.3	.1										.4	2.9
ESE	2.0	1.8	.0									3.8	3.3
SE	5.1	6.1	.2									11.3	3.6
SSE	4.7	5.6	.9									11.2	4.0
S	4.1	9.7	4.0	.2								17.4	3.1
SSW	2.7	6.4	6.6	1.3								17.1	6.3
SW	1.6	4.9	5.4	1.6	.1							13.5	7.1
WSW	.8	1.5	1.4	.2								4.0	6.0
W	1.3	2.4	.8	.0								4.6	4.7
WNW	1.0	1.6	.3	.0								2.9	4.5
NW	.9	1.4	.5	.1	.7							3.0	3.1
NNW	.6	.7	.4	.2								1.9	3.7
VARBL													
CALM												7.1	
	26.0	42.2	20.8	3.8	.1							100.0	5.9

TOTAL NUMBER OF OBSERVATIONS

6696

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

## SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

724835 STATION MATHER AFB CA 73-81 YEARS SEP NORTH  
ALL WEATHER CLASS  
CONDITION

0000-0200  
DOVES (L.S.T.)

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	.4	.6	.5	.6								2.1	7.3
NNE	.2	.1										.4	3.3
NE	.5											.5	1.8
ENE	.2											.2	3.0
E	1.5	.4										1.9	2.4
ESE	9.5	4.6										14.1	3.1
SE	11.2	12.4	.7									24.4	3.7
SSE	7.4	8.2	.6									16.2	3.7
S	5.6	6.1	1.1	.2								13.0	4.1
SSW	.9	2.1	.4	.2								3.6	4.9
SW	.4	.5										.9	3.3
WSW													
W	.1	.1										.2	3.0
WNW	.1	.2										.4	4.0
NW	.4	.9										1.2	4.5
NNW	.2	.4										.6	3.6
VARBL													
CALM												20.4	
	38.7	36.5	3.3	1.1								100.0	3.0

TOTAL NUMBER OF OBSERVATIONS 809

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

## SURFACE WINDS

### PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS)

724835  
STATION

MATHER AFB CA  
STATION NAME

73-81  
YEARS

SEP  
MONTH

ALL WEATHER  
CLASS

0300-0500  
HOURS (L.S.T.)

CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 14	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	.9	.6	.9									2.3	5.1
NNE	.4	.1										.5	2.5
NE	1.1											1.1	1.7
ENE	.5	.1										.6	2.2
E	1.7	.4										1.4	2.8
ESE	8.9	5.1										14.0	3.0
SE	13.9	14.0										24.8	3.6
SSE	5.7	6.4	1.0									13.1	3.9
S	5.3	5.9	1.0									12.2	3.9
SSW	.9	.9	.2	.1								2.1	4.2
SW	.6	.1										.7	2.3
WSW													
W	.2											.2	2.5
WNW													
NW		.7	.2									.5	6.5
NNW	.2	1.2	.5									2.0	5.5
VARBL													
CALM												24.4	
	36.5	35.1	3.8	.1								100.0	2.7

TOTAL NUMBER OF OBSERVATIONS 810

1  
GENERAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

# SURFACE WINDS

## PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS)

724835  
STATION

WATHER AFB CA  
STATION NAME

73-81  
YEARS

SEP  
MONTH

ALL WEATHER  
CLASS

0600-0800  
HOURS (L.S.T.)

CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	1.0	1.5	1.5	.1								4.9	5.3
NNE	.5	.2										.7	2.7
NE	.7											.7	1.3
ENE	1.0											1.0	2.0
E	1.5	.1										1.6	2.4
ESE	3.3	1.7	.2									5.3	3.2
SE	6.3	7.4	.2									14.0	3.5
SSE	5.3	8.8	1.0									15.1	4.1
S	5.7	10.2	2.6	.6								19.1	4.7
SSW	2.8	2.7	.4									5.9	3.7
SW	.5	1.0	.5									2.0	5.0
WSW	.4	.1										.5	2.8
W	.1											.1	2.0
WNW	.2	.2										.5	3.5
NW	.5	.5	.2									1.2	4.4
NNW	.5	.2	1.1	.4								2.8	6.7
VARBL													
CALM												24.4	
	51.2	35.4	7.8	1.1								100.0	3.1

TOTAL NUMBER OF OBSERVATIONS

810

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

# SURFACE WINDS

## PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS)

724835  
STATION

MATHER AFB CA  
STATION NAME

73-81  
YEARS

SEP  
MONTH

ALL WEATHER  
CLASS

0900-1100  
HOURS (L.S.T.)

CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 14	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	.9	.6	1.7	1.2	.1							4.6	8.4
NNE	.1	.1		.1								.4	7.0
NE													
ENE													
E	.1	.1										.2	3.5
ESE	.2	.4										.6	3.8
SE	.4	.5	.1									1.0	4.1
SSE	1.5	1.5	1.4									4.3	4.9
S	5.1	7.5	4.2	.7								17.5	5.3
SSW	4.8	6.7	3.7	.6								15.8	5.2
SW	4.6	6.2	4.0	.5								15.2	5.3
WSW	3.2	1.2	.6									5.1	3.2
W	3.3	1.6										4.9	2.9
WNW	2.2	1.1	.2									3.6	3.2
NW	2.3	2.2	.5	.1								5.2	4.1
NNW	1.5	3.6	2.8	1.4								9.3	6.9
VARBL													
CALM												12.3	
	30.2	33.3	19.3	4.7	.1							100.0	4.5

TOTAL NUMBER OF OBSERVATIONS 810

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AFS WEATHER SERVICE/MAC

## SURFACE WINDS

### PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS)

124835 HATHER AFB CA 73-81 SEP  
STATION NORTH  
ALL WEATHER CLASS  
1200-1400 HOURS (L.S.T.)  
CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	1.6	1.4	1.7	1.4								6.1	7.0
NNE	.1											.1	1.0
NE													
ENE													
E		.1										.1	5.0
ESE													
SE	.1	.2										.4	4.3
SSE	.2	.2	.5									1.0	5.8
S	.9	2.7	2.1	.5								6.2	6.3
SSW	1.4	4.5	3.6	.5								10.0	6.3
SW	2.8	6.9	5.6	1.9								17.2	6.5
WSW	1.9	4.5	1.1	.2								9.0	5.1
W	4.0	10.4	1.4									15.7	4.3
WNW	3.5	6.7	1.5			.1						11.7	4.8
NW	3.5	4.0	1.9	.7								10.0	5.1
NNW	1.6	3.1	1.7	2.0	.1							8.5	7.3
VARBL													
CALM												4.9	
	21.5	45.1	21.0	7.2	.1	.1						100.0	5.4

TOTAL NUMBER OF OBSERVATIONS 809

JOINT CLIMATOLOGY BRANCH  
USAFETAC  
AT WEATHER SERVICE/MAC

# SURFACE WINDS

## PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS)

72-835 MATHER AFB CA

73-81

SEP

STATION

STATION NAME

YEARS

MONTH

ALL WEATHER

1500-1700

CLASS

HOURS (L.S.T.)

CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 14	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	.7	2.	1.1	1.1								4.9	7.1
NNE	.1											.1	2.0
NE													
ENE													
E		.1										.1	6.0
ESE			.7									.2	7.5
SE	.1	.1										.2	4.5
SSE	.1	.4										.5	4.5
S	.5	1.6	2.6	.4								5.2	7.1
SSW	.7	3.5	4.8	1.9								10.9	7.7
SW	1.0	5.1	8.9	1.5								16.4	7.4
WSW	1.7	3.7	4.8	.9								10.4	6.6
W	3.5	6.3	1.9	.6								12.2	5.2
WNW	3.4	6.7	.9	.2								11.6	4.3
NW	3.1	4.6	2.7	1.6	.1							12.1	6.1
NNW	1.2	3.2	2.2	.7	.1							7.5	6.6
VARBL													
CALM												7.4	
	19.3	36.5	30.2	2.9	.2							120.0	5.9

TOTAL NUMBER OF OBSERVATIONS

809



GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

## SURFACE WINDS

### PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS)

STATION WATHER AFR CA 73-81 SEP  
STATION NAME YEARS MONTH  
ALL WEATHER  
CLASS  
1800-2000  
HOURS (L.S.T.)  
CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	.5	.4	.5									2.6	4.2
NNE	.4											.4	2.3
NE	.5		.1									.7	2.8
ENE	.5											.2	2.5
E	.5	.1										.4	2.3
ESE	.4	.5	.1	.1								1.2	5.3
SE	.5	.5	.1	.1								1.2	4.8
SSE	.5	.6										1.2	3.3
S	5.2	6.4	1.6	.4								13.5	4.4
SSW	7.8	13.1	5.2	.4								26.4	4.9
SW	7.1	6.5	6.8	.5								16.9	6.1
WSW	.6	2.	1.2	.7	.1							4.7	6.8
W	1.2	1.4	.6	.1								3.3	4.7
WNW	.5	.5	.5									1.9	4.3
NW	1.7	2.1	.5	.2								4.6	4.6
NNW	.9	1.9	.6	.6								4.0	5.9
VARBL													
CALM												16.8	
	25.2	36.2	17.9	7.2	.1							100.0	4.3

TOTAL NUMBER OF OBSERVATIONS 810

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
ALL WEATHER SERVICE/MAC

# SURFACE WINDS

## PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS)

STATION 724835 HATHER AFB CA STATION NAME 73-81 YEARS SEP 2007H  
CLASS ALL WEATHER  
CONDITION 2100-2300  
HOURS (L.S.T.)

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	.4	.5	.1									1.0	4.5
NNE	.6											.6	1.8
NE	.4		.1									.5	4.0
ENE	.2	.1	.2									.6	5.0
E	1.1	.6										1.7	2.9
ESE	5.3	4.7										10.5	3.3
SE	6.2	9.3	.2									17.5	3.6
SSE	7.2	7.2	1.1									15.3	3.7
S	7.2	10.6	1.4	.2								19.3	4.2
SSW	3.5	2.5	.7	.1								6.8	3.9
SW	1.4	1.4	.2	.1								3.1	4.2
WSW	.4	.1										.5	2.5
W			.1									.1	7.0
WNW	.2	.5	.2									1.0	5.0
NW	.2	.4	.1									.7	4.7
NNW	.2	.5	.2									1.0	5.3
VARBL													
CALM												19.8	
	36.5	38.3	4.9	.5								100.0	3.1

TOTAL NUMBER OF OBSERVATIONS 810

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AFW WEATHER SERVICE/MAC

# SURFACE WINDS

## PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS)

724835  
STATION

MATHEF AFB CA  
STATION NAME

73-81  
YEARS

SEP  
MONTH

ALL WEATHER  
CLASS

ALL  
MOVING (L.S.T.)

CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	1.0	1.0	1.0	.6	.0							3.6	6.5
NNE	.3	.1		.0								.4	2.9
NE	.4		.0									.4	2.2
ENE	.3	.0	.0									.3	2.9
E	.7	.2										.9	2.7
ESE	3.5	2.1	.1	.0								5.7	3.2
SE	4.7	5.5	.2	.0								10.4	3.6
SSE	3.5	4.2	.7									8.3	3.9
S	4.4	6.4	2.1	.4								13.2	4.7
SSW	2.8	4.5	2.4	.5								10.2	5.3
SW	1.8	3.5	3.2	.6								9.0	6.1
WSW	1.0	1.4	1.0	.2	.0							3.6	5.5
W	1.6	2.5	.5	.1								4.6	4.4
WNW	1.4	2.0	.4	.0		.0						3.8	4.4
NW	1.5	1.7	.8	.3	.0							4.4	5.2
NNW	.8	1.6	1.2	.6	.0							4.5	6.6
VARBL													
CALM												16.3	
	29.7	37.0	13.5	3.4	.1	.0						100.0	4.0

TOTAL NUMBER OF OBSERVATIONS

6477

USAFETAC

FORM 0-8-5 (01-62)  
NA 64

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
ATC WEATHER SERVICE/MAC

# SURFACE WINDS

## PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS)

724835  
STATION

MATHER AFB CA  
STATION NAME

73-81  
YEARS

OCT  
MONTH

ALL WEATHER  
CLASS

0000-0200  
HOURS (L.S.T.)

CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 14	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	1.1	.4	.8	.6								2.9	6.7
NNE	.7	.2										1.0	2.6
NE	1.7	.5										2.2	2.6
ENE	1.7	.5										2.2	2.5
E	1.8	.8										2.6	2.9
ESE	7.6	7.8	.1									15.5	3.3
SE	7.2	8.1	1.0	1.0								17.2	4.3
SSE	3.5	4.1	.8	.5								8.8	4.6
S	1.4	3.1	1.6	.7								6.8	5.7
SSW	.7	.7	.2	.1								1.8	4.8
SW	.5		.1									.6	4.0
WSW	.1											.1	1.0
W	.2	.1										.4	3.3
WNW	.4											.4	2.7
NW	.1	.1		.1								.4	6.0
NNW	.4	.1	.6	.4								1.4	7.9
VARBL													
CALM												35.8	
	29.0	26.5	5.3	3.3								100.0	2.7

TOTAL NUMBER OF OBSERVATIONS

837

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

SURFACE WINDS

724835 MATHER AFB CA

73-81

OCT

STATION

STATION NAME

YEARS

NORTH

ALL WEATHER

CLASS

1300-0500

MOVING (L.S.T.)

CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	.6	.8	.5	1.2								3.1	7.9
NNE	1.4											1.4	2.2
NE	2.5	.5										3.0	2.6
ENE	2.0											2.0	2.1
E	2.5	.5										3.0	2.5
ESE	7.2	5.4	.2									12.8	3.3
SE	8.7	7.3	.2	.5	.1							16.1	3.8
SSE	3.5	3.3	.7	.7	.1							8.4	5.0
S	2.2	2.7	.5	.4								5.0	4.9
SSW	.2	.4	1.7	.2								1.8	7.7
SW	.4	.4	.1									.8	4.1
WSW	.2											.2	1.5
W													
WNW		.2										.2	4.0
NW	.4											.4	2.7
NNW	.7	.2	.4	.4								1.7	6.4
VARBL													
CALM												40.0	
	31.8	21.3	3.6	3.3	.2							100.0	2.5

TOTAL NUMBER OF OBSERVATIONS

637

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

SURFACE WINDS

724835 STATION MATHER AFB CA 73-81 YEARS OCT MONTH  
ALL WEATHER CLASS 3600-0800 HOURS (L.S.T.)  
CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 14	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 53	≥ 54	%	MEAN WIND SPEED
N	2.1	1.2	.7	.6								5.3	5.3
NNE	.6	.1										.7	2.2
NE	1.5											1.8	2.4
ENE	.7	.1										.8	2.1
E	1.8	.5										2.3	2.6
ESE	4.9	2.4	.2									7.5	3.0
SE	5.4	6.8	1.2	.1								13.5	4.0
SSE	2.9	3.9	1.2	1.0								9.0	5.5
S	1.2	3.7	1.0	.5								6.6	5.1
SSW	.6	.7	.8	.1								2.3	5.6
SW		.5	.2	.2								1.0	7.6
WSW	.1	.1										.2	3.5
W	.6	.2										.8	2.6
WNW	.5											.8	2.1
NW	.5	.2	.1									.8	4.1
NNW	1.5	.7	.8	.5	.1							3.9	5.9
VARBL													
CALM												42.7	
	26.6	21.3	6.3	3.0	.1							100.0	2.5

TOTAL NUMBER OF OBSERVATIONS 837

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
A1- WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

SURFACE WINDS

72-835  
STATION

MATHER AFB CA  
STATION NAME

73-81  
YEARS

OCT  
MONTH

ALL WEATHER  
CLASS

0900-1100  
HOURS (L.S.T.)

CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	1.2	1.2	1.1	1.3								6.3	6.6
NNE	.5	.1	.1									.7	3.7
NE	.5	.1										.6	2.4
ENE	.1	.1										.2	3.0
E	.6	.4										1.0	2.8
ESE	.5	.1	.1									.7	3.8
SE	.6	1.5										2.2	3.9
SSE	1.1	3.0	1.1	1.0	.4							6.5	7.0
S	3.6	6.3	3.0	2.2								15.1	6.0
SSW	3.1	4.2	2.6	.5								10.3	5.3
SW	2.4	2.3	1.6	.5	.1							6.8	5.4
WSW	1.4	.7		.1								2.3	3.9
W	1.9	1.1	.1	.1								3.1	3.4
WNW	4.0	2.3										6.2	2.9
NW	4.3	1.6	.5	.1								6.5	3.3
NNW	2.2	3.1	1.3	1.2	.5							8.3	6.6
VARBL													
CALM												23.2	
	28.7	28.0	12.1	6.9	1.0							100.0	4.0

TOTAL NUMBER OF OBSERVATIONS

835

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

## SURFACE WINDS

### PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS)

704835  
STATION

MATHER AFB CA  
STATION NAME

73-81  
YEARS

OCT  
MONTH

ALL WEATHER  
CLASS

1200-1400  
HOURS (L.S.T.)

CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 14	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 53	≥ 54	%	MEAN WIND SPEED
N	.0	1.0	1.8	1.3	.1							6.2	7.3
NNE	.6	.5										1.1	3.2
NE	.1	.1										.2	3.0
ENE		.1										.1	4.0
E													
ESE			.2									.2	9.0
SE	1.0	.4	.1									1.4	3.8
SSE	.2	.5	.8	1.6	.1							3.2	9.9
S	1.6	1.8	2.8	1.3	.2							7.9	7.1
SSW	1.4	3.3	2.4	1.0								8.1	6.4
SW	2.2	3.0	2.6	.6								8.4	5.6
WSW	3.6	2.6	1.3	.4	.1							8.0	4.7
W	4.8	5.1	.6									10.5	3.6
WNW	5.1	5.2	1.0									11.1	4.0
NW	5.4	4.4	1.9	1.0								12.7	4.9
NNW	3.0	3.5	1.8	1.8	.7							10.8	7.3
VARBL													
CALM												9.9	
	31.2	31.3	17.3	8.9	1.3							100.0	5.1

TOTAL NUMBER OF OBSERVATIONS

836



GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AFW WEATHER SERVICE/MAC

## SURFACE WINDS

### PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS)

12-835

KATHER AFB CA

73-81

OCT

STATION

STATION NAME

YEARS

MONTH

ALL WEATHER

CLASS

1500-1700

HOURLS (L.S.T.)

CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	3.7	2.4	1.1	1.0	.1							8.2	5.2
NNE	.7		.1									.8	3.4
NE	.2	.2										.5	3.3
ENE	.1	.1										.2	4.0
E	.5	.1										.6	2.6
ESE	.2	.4										.6	3.8
SE	.1	.7	.6	.1								1.6	6.2
SSE	.7	.5	.7	.4	.1							2.4	6.9
S	1.2	1.2	1.7	.2								4.9	5.7
SSW	1.8	4.7	3.1	1.2	.1							10.4	6.4
SW	2.3	2.7	2.4	1.0								8.4	5.9
WSW	2.5	2.5	1.6	.5								7.0	5.1
W	2.2	3.7	1.3	.1								6.6	4.6
WNW	3.5	3.5	1.3									8.2	4.3
NW	4.3	4.9	1.8	.4	.1							11.5	4.7
NNW	2.2	3.1	2.6	2.4	.5							10.6	7.8
VARBL													
CALM												17.4	
	26.2	30.0	18.3	7.2	1.0							100.0	4.6

TOTAL NUMBER OF OBSERVATIONS

837

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

# SURFACE WINDS

## PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS)

724835  
STATION

FATHER AFB CA  
STATION NAME

73-81  
YEARS

OCT  
MONTH

ALL WEATHER  
CLASS

1800-2000  
HOURS (L.S.T.)

CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	2.2	1.3	1.3	.4								5.6	5.2
NNE	.8	.5										1.3	2.7
NE	1.1	.2										1.3	2.5
ENE	.6											.6	2.4
E	1.4	.6	.1									2.2	3.1
ESE	2.2	1.9	.2									4.3	3.7
SE	2.7	2.2	.1									5.0	3.4
SSE	2.2	2.2	1.0		.2							5.5	4.8
S	3.0	2.9	1.6		.1							7.5	4.8
SSW	5.5	6.7	1.7	.4								13.5	4.4
SW	1.3	2.5	1.8	.1								5.7	5.4
WSW	.2	.9	.2	.4								1.7	6.4
W	.6	.6	.4									1.6	4.7
WNW	.5											.5	2.0
NW	1.2	1.1										2.2	3.1
NNW	1.1	1.3	1.3	.5								4.1	6.4
VARBL													
CALM												37.5	
	26.4	24.4	9.7	1.7	.4							100.0	2.8

TOTAL NUMBER OF OBSERVATIONS

837

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AI- WEATHER SERVICE/MAC

## SURFACE WINDS

### PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS)

724835  
STATION

MATHER AFB CA  
STATION NAME

73-81  
YEARS

OCT  
MONTH

ALL WEATHER  
CLASS

2100-2300  
HOURS (L.S.T.)

CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 53	≥ 56	%	MEAN WIND SPEED
N	.5	1.3	1.1	.4								3.2	6.4
NNE	1.0	.7										1.7	3.1
NE	1.3	.2										1.2	2.7
ENE	1.3	.4										1.7	2.6
E	3.2	.8	.1									4.2	2.7
ESE	6.6	8.6										15.2	3.5
SE	5.7	9.7	1.2	.4								17.0	4.2
SSE	3.6	4.3	1.1	.5								9.4	4.6
S	3.0	2.7	1.4	.4								7.5	4.5
SSW	1.1	1.0	.4	.1	.1							2.6	5.0
SW	.5	.6	.1		.1							1.3	5.6
WSW	.1											.1	2.0
W		.6										.5	4.8
WNW	.1	.2	.1									.5	5.0
NW	.2	.4	.1									.7	4.7
NNW	.6	1.1	.6	.4								2.6	6.1
VARBL													
CALM												30.6	
	28.6	32.5	6.1	2.0	.2							100.0	2.9

TOTAL NUMBER OF OBSERVATIONS

837

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

## SURFACE WINDS

### PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS)

724835  
STATION

NATHAN AFS CA  
STATION NAME

73-81  
YEARS

OCT  
MONTH

ALL WEATHER  
CLASS

ALL  
HOURS (L.S.T.)

CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	1.2	1.3	1.1	.8	.7							5.1	6.2
NNE	.8	.3	.1									1.1	2.9
NE	1.1	.2										1.3	2.6
ENE	.8	.2										1.0	2.5
E	1.5	.5	.1									2.0	2.7
ESE	3.6	3.3	.1									7.1	3.4
SE	3.8	4.6	.6	.3	.0							9.2	4.1
SSE	2.2	2.7	.9	.7	.1							6.6	5.6
S	2.3	3.1	1.7	.7	.7							7.7	5.6
SSW	1.8	2.6	1.5	.4	.0							6.3	5.5
SW	1.2	1.5	1.1	.3	.7							4.1	5.7
WSW	1.1	.9	.4	.2	.7							2.5	4.8
W	1.3	1.3	.3	.7								2.9	3.9
WNW	1.8	1.4	.3									3.5	3.8
NW	2.1	1.6	.6	.2	.0							4.4	4.4
NNW	1.5	1.0	1.2	.9	.2							5.4	7.0
VARBL													
CALM												29.7	
	24.6	26.9	9.8	4.5	.5							100.0	3.4

TOTAL NUMBER OF OBSERVATIONS

6693

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

## SURFACE WINDS

### PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS)

72-635 MATHER AFB CA 73-81

STATION NAME YEARS

ALL WEATHER

CLASS

CONDITION

NOV

0000-2000

MOON (L.S.T.)

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 53	≥ 54	%	MEAN WIND SPEED
N	.2	2.0	.5	.5	.1							4.0	5.9
NNE	1.4	.5										1.9	2.9
NE	1.0	.6										2.2	2.6
ENE	1.1	.2										1.4	2.3
E	1.5	1.4										2.9	3.4
ESE	7.1	4.7	.1									11.9	3.3
SE	4.5	6.1	2.0	.2	.1							12.9	4.7
SSE	1.7	3.5	1.2	.9	.2							6.8	6.9
S	1.1	1.7	1.0	.7	.4							5.0	7.4
SSW	.4	.4	.2	.1	.1							1.2	6.6
SW	.2		.1	.1								.5	6.8
WSW	.2		.1									.4	5.0
W	.6											.6	2.0
WNW	.4	.2	.2									.9	4.6
NW	.2	1.0	.6									2.4	4.7
NNW	.2	2.0	.4	.6								4.7	5.7
VARBL													
CALM												40.5	
	23.6	24.7	6.6	3.2	1.0							100.0	2.9

TOTAL NUMBER OF OBSERVATIONS 807

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

# SURFACE WINDS

## PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS)

73-839  
STATION

MATLAB AFB CA

STATION NAME

73-81

YEARS

NOV

MONTH

ALL WEATHER

7300-9500

HOURS (L.S.T.)

CLASS

CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 14	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	.2	1.5	1.1	.5								4.0	6.4
NNE	.1	.2										1.4	2.7
NE	.1	.2										2.4	2.4
ENE	1.5	.6										2.1	2.7
E	3.7	1.1	.1									4.8	2.6
ESE	5.7	4.3										10.0	3.2
SE	4.1	5.3	1.1	.4	.1							11.0	4.7
SSE	.7	2.1	1.1	1.2	.1							5.3	7.4
S	.7	1.4	2.1	.5	.1							4.8	7.5
SSW	.6	.2	.5	.2								1.6	6.0
SW	.7	.5	.1									1.4	3.8
WSW		.4										.4	4.3
W	.2	.1										.2	3.0
WNW	.2	.1	.1									.5	4.5
NW	1.1	.7	.5									2.2	4.1
NNW	.2	1.6	.9	.5								3.7	6.2
VARBL													
CALM												44.1	
	24.2	20.3	7.7	3.3	.4							100.0	2.6

TOTAL NUMBER OF OBSERVATIONS

807

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

# SURFACE WINDS

## PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS)

STATION 71835 PATHER AFB CA STATION NAME 77-81 YEARS NOV  
 CLASS ALL WEATHER MONTH NORTH  
 CONDITION 600-0800  
 HOURS (L.S.T.)

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	1.7	1.1	1.7	1.1								5.0	6.5
NNE	1.5	.1										1.6	2.2
NE	1.9	.1										2.0	1.9
ENE	1.1	.1										1.2	2.3
E	.7	1.1										3.1	2.9
ESE	4.2	1.9	.7									6.8	3.6
SE	3.3	4.3	1.2	.4	.1							9.8	4.7
SSE	.7	1.6	2.9	.7	.2							6.2	7.7
S	1.5	1.9	1.4	1.2	.2	.1						6.4	7.4
SSW	.7	.1	.1									.5	3.8
SW	.7	.3	.1	.4								1.0	7.6
WSW	.4		.1									.5	3.8
W	.4	.1										.5	2.8
WNW	.4		.1									.5	3.0
NW	1.1	.6	.6									2.2	4.6
NNW	1.1	1.5	.5	.2	.1							3.5	5.6
VARBL													
CALM												49.2	
	2.3	14.7	3.8	4.1	.7	.1						100.0	2.6

TOTAL NUMBER OF OBSERVATIONS 807

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

# SURFACE WINDS

## PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS)

724835 STATION 724835 STATION NAME WATHER AFR CA 73-81 YEARS NOV MONTH 0900-1100 HOURS (L.S.T.)

ALL WEATHER CLASS

CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 14	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	.1	1.5	2.6	1.2	.2							7.7	7.3
NNE	.7	.2										1.0	2.4
NE	.6											.6	2.2
ENE	.6	.2										.9	2.1
E	1.7	.1	.4									1.5	3.1
ESE	1.2	.2	.6									2.7	4.0
SE	2.2	2.5	1.5	.6								6.8	5.5
SSE	2.2	3.5	4.3	2.4	.6	.2						13.0	8.3
S	3.6	3.6	2.4	1.7								11.3	6.0
SSW	2.7	1.1	1.0									4.1	4.3
SW	1.7	1.2	.4	.1								2.7	4.6
WSW	.5	.4	.1	.1								1.1	4.8
W	2.5	1.1										3.7	2.7
WNW	1.6	.7										2.4	2.6
NW	2.4	2.2	.7									5.3	4.0
NNW	3.7	1.9	2.7	1.1	.2							8.2	6.1
VARBL													
CALM												27.0	
	27.1	21.2	16.0	7.3	1.1	.2						100.0	4.1

TOTAL NUMBER OF OBSERVATIONS 807



GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AFW WEATHER SERVICE/MAC

# SURFACE WINDS

## PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS)

STATION 704935 STATION NAME WATHER AFB CA YEARS 73-81 MONTH NOV  
 CLASS ALL WEATHER  
 HOURS (L.S.T.) 1200-1400  
 CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 53	≥ 56	%	MEAN WIND SPEED
N	2.2	2.7	2.5	1.7	.5							9.7	7.4
NNE	.9	.2	.1									1.2	3.0
NE	.1	.1										.2	4.5
ENE	.4	.1										.5	2.5
E	.2	.4										.6	3.2
ESE	.5	.7	.1									1.4	4.1
SE	1.1	1.7	1.2	.7	.1	.1						4.3	7.7
SSE	1.7	2.9	2.2	2.6	.9		.1					9.7	9.0
S	2.9	4.6	2.2	1.5								11.2	6.0
SSW	2.2	2.1	1.2									5.5	4.5
SW	2.2	2.1	.7	.2								5.3	4.5
WSW	2.1	.9		.1								3.1	3.3
W	2.9	2.1	.2									5.1	3.3
WNW	3.3	2.6	.2		.1							6.3	3.5
NW	2.7	3.2	1.9	.2								8.3	4.7
NNW	3.1	4.8	4.7	1.6	.6							14.1	6.9
VARBL												13.5	
CALM													
	25.1	30.4	16.7	8.8	2.2	.1	.1					100.0	5.1

TOTAL NUMBER OF OBSERVATIONS 807

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AFW WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

SURFACE WINDS

724835  
STATION

MATHER AFB CA  
STATION NAME

73-81  
YEARS

NOV  
MONTH

ALL WEATHER

1500-1700  
HOURS (L.S.T.)

CLASS

CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 14	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	3.7	3.7	2.4	1.6	.2							11.6	6.0
NNE	1.1	.1	.4									1.6	3.9
NE	.2	.1										.4	2.3
ENE	.1	.2										.4	4.0
E	.6	.2	.1									1.0	3.8
ESE	.5	1.0	.7									2.2	5.1
SE	1.2	2.2	1.9		.2	.1						5.7	6.5
SSE	1.9	2.2	1.6	1.5	.1	.1						7.4	7.4
S	3.0	2.9	1.2	1.2	.1	.1						8.6	6.1
SSW	2.7	2.2	.6	.1								5.5	3.9
SW	2.1	1.7	1.0	.1								5.0	4.5
WSW	.4	.6	.5	.1								1.6	5.6
W	1.5	.6	.2	.1								2.5	3.8
WNW	1.4	1.2	.5									3.1	4.0
NW	4.3	3.5	1.0	.6	.2							9.7	4.9
NNW	3.7	2.6	2.6	2.2	.4							11.5	6.8
VARBL													
CALM												22.3	
	28.5	25.0	14.7	7.7	1.4	.4						100.0	4.4

TOTAL NUMBER OF OBSERVATIONS 807

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

# SURFACE WINDS

## PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS)

724835 MATHER AFB CA

73-81

NOV

STATION

STATION NAME

YEARS

MONTH

ALL WEATHER

1800-2000

CLASS

HOURS (LST.)

CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	.1	2.4	1.4	1.5								8.3	5.7
NNE	1.4	.4	.1									1.9	2.5
NE	1.2	.1										1.4	2.3
ENE	.9	.2										1.1	2.7
E	1.0	.9	.1									2.9	3.3
ESE	.1	3.7	.6									9.4	3.4
SE	3.3	4.1	1.5	.9	.1							9.9	5.5
SSE	2.2	1.9	1.6	.4		.5						6.6	7.1
S	2.2	1.7	1.7	1.1								5.3	5.7
SSW	1.7	.9										2.6	3.2
SW	.9	.4	.1									1.4	3.0
WSW		.1	.1									.2	6.0
W	.1											.1	1.0
WNW	.5	.1										.6	2.8
NW	.9	1.6	.2									2.7	4.0
NNW	1.1	1.1	1.4	.7								4.3	6.9
VARBL													
CALM												41.3	
	20.5	18.8	8.2	4.6	.1	.5						100.0	2.9

TOTAL NUMBER OF OBSERVATIONS

807

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

SURFACE WINDS

17-835 STATION NAME: MATHER AFB CA 73-81 YEARS: NOV  
STATION MONTH  
ALL WEATHER CLASS  
CONDITION  
2100-2300 HOURS (L.S.T.)

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 14	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 53	≥ 54	%	MEAN WIND SPEED
N	.2	1.1	1.7	1.4								5.1	7.5
NNE	.5	.4	.1									1.0	3.8
NE	1.4	.6										2.0	3.1
ENE	2.4	.2										2.6	2.3
E	3.1	1.5	.1									4.7	2.9
ESE	7.3	5.6	.2									13.1	3.3
SE	4.5	8.2	1.2	.7	.1							14.7	4.8
SSE	1.2	3.3	1.4	1.0	.6							7.6	7.5
S	1.2	1.4	.9	.6	.1							4.2	6.2
SSW	.5		.1	.4	.1							1.1	8.4
SW	.4	.1		.1								.6	4.6
WSW	.1											.1	2.0
W	.1	.4										.5	3.3
WNW	.1											.1	3.0
NW	.7	1.5	.4	.1								2.7	4.9
NNW	.7	1.2	.4	.1								2.5	4.8
VARBL													
CALM												37.3	
	27.2	25.5	6.6	4.5	1.0							100.0	3.0

TOTAL NUMBER OF OBSERVATIONS 807

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

# SURFACE WINDS

## PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS)

724835  
STATION

FATHER AFB CA  
STATION NAME

73-81  
YEARS

NOV  
MONTH

ALL WEATHER  
CLASS

ALL  
HOURS (L.S.T.)

CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	1.0	2.0	1.6	1.2	.1							6.9	6.6
NNE	1.1	.3	.1									1.4	2.9
NE	1.2	.2										1.4	2.5
ENE	1.0	.3										1.3	2.5
E	1.8	.8	.1									2.7	3.0
ESE	3.9	2.9	.4									7.2	3.5
SE	3.1	4.2	1.5	.5	.1	.0						9.4	5.2
SSE	1.3	2.6	2.0	1.3	.4	.1	.0					7.8	7.8
S	2.7	2.3	1.5	1.1	.1	.0						7.1	6.4
SSW	1.3	.8	.5	.1	.0							2.8	4.6
SW	1.0	.8	.3	.1								2.2	4.6
WSW	.5	.3	.1	.0								.9	4.3
W	1.0	.5	.1	.0								1.7	3.1
WNW	1.0	.6	.2		.0							1.8	3.5
NW	1.8	1.8	.7	.1	.0							4.4	4.6
NNW	1.8	2.0	1.5	.9	.2							6.6	6.4
VARBL													
CALM												34.4	
	25.7	22.6	10.7	5.4	1.0	.2	.0					100.0	3.5

TOTAL NUMBER OF OBSERVATIONS 6456

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

SURFACE WINDS

724835  
STATION

MATHER AFB CA  
STATION NAME

73-81  
YEARS

DEC  
MONTH

ALL WEATHER  
CLASS

0000-0200  
HOURS (L.S.T.)

CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 14	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	1.6	1.4	1.7	.7	.4	.4						6.1	8.0
NNE	1.3	.4	.1									1.8	3.1
NE	2.4	.5										2.9	2.4
ENE	1.2	.8	.1									2.2	3.3
E	3.2	.5										3.7	2.5
ESE	4.2	4.8	.2	.1								9.3	3.7
SE	2.9	3.7	1.2	1.0	.1	.2	.1					9.2	6.5
SSE	1.2	3.7	2.0	1.8	.1	.2						8.4	8.0
S	1.6	2.4	1.8	.7	.5	.2						7.2	7.7
SSW	.8	1.0	.1	.1								2.0	4.6
SW	.2	.1	.1									.5	4.8
WSW	.1											.1	2.0
W	.1											.1	2.0
WNW	.6	.2	.1									1.0	3.5
NW	.5	.1	.2									.8	4.3
NNW	1.0	1.2	1.6	.8	.1							4.7	7.7
VARBL													
CALM												40.1	
	22.8	20.1	9.3	5.3	1.2	1.1	.1					100.0	3.5

TOTAL NUMBER OF OBSERVATIONS

837

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

# SURFACE WINDS

## PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS)

STATION 724835 MATHER AFB CA YEARS 73-81 DEC MONTH 0300-0500  
STATION NAME CLASS ALL WEATHER  
CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	2.3	1.6	2.0	.4	.6							6.8	6.8
NNE	1.8	.1	.1									2.0	2.4
NE	2.2	.5										2.6	2.6
ENE	2.6	.7										3.3	2.6
E	1.2	1.1	.4	.1								2.7	4.1
ESE	2.9	2.4	.2	.2								5.7	4.0
SE	2.7	2.4	1.3	.4	.4	.4		.1				7.6	7.0
SSE	1.0	2.0	1.7	1.8	.1							6.6	7.9
S	2.0	2.3	2.0	1.1								7.4	6.5
SSW	.5	.7	.5		.1							1.8	5.9
SW	.5		.1									.6	2.8
WSW	.4	.1										.5	3.3
W	.4	.1										.5	2.8
WNW	1.0	.4										1.3	3.0
NW	.2	.6	.1									1.0	4.5
NNW	.5	1.6	1.6	.5	.1							4.2	7.3
VARBL													
CALM												45.3	
	22.0	16.5	10.0	4.4	1.3	.4		.1				100.0	3.1

TOTAL NUMBER OF OBSERVATIONS 837

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

## SURFACE WINDS

### PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS)

72-935  
STATION

MATHER AFB CA

STATION NAME

73-81

YEARS

DEC

MONTH

ALL WEATHER

CLASS

0600-0800

HOURLY (L.S.T.)

CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 14	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	1.2	2.4	1.7	1.2	.6							6.3	7.6
NNE	1.1	.5	.1									1.7	3.4
NE	1.9	.4										2.3	2.5
ENE	1.3	.2	.1									2.2	2.4
E	1.8	1.3	.2									3.3	3.6
ESE	3.8	1.9		.2								6.0	3.4
SE	3.1	2.9	1.3	1.0	.4							8.6	5.9
SSE	1.7	1.4	3.1	1.1	.5	.1						7.9	8.1
S	1.3	1.4	1.9	1.0	.1	.1						5.9	7.3
SSW	.7	.4	.4	.1								1.6	4.7
SW	.7	.4	.2									1.3	4.3
WSW	.1	.4	.1	.1								.7	5.7
W	1.0	.1	.1	.1								1.3	3.8
WNW	.1	.4										.5	3.5
NW	1.3	.7	.2									1.9	4.1
NNW	.8	1.9	1.4	1.1	.1							5.4	7.3
VARBL													
CALM												43.2	
	22.1	16.6	10.3	5.9	1.7	.2						100.0	3.2

TOTAL NUMBER OF OBSERVATIONS

837



GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

# SURFACE WINDS

## PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS)

73-835  
STATION

FATHER AFB CA

STATION NAME

73-81

YEARS

DEC

MONTH

ALL WEATHER

CLASS

1900-1100

HOURS (L.S.T.)

CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	1.2	1.5	1.4	1.7	.5	.1						6.7	7.4
NNE	.7	.5										1.2	2.7
NE	1.7	.4										1.3	2.4
ENE		.1										.1	6.0
E	1.1	.4	.1									1.6	2.8
ESE	1.9	1.2	.2	.4								3.7	4.6
SE	2.6	1.8	1.0	.5		.2						6.1	5.7
SSE	2.5	3.1	2.5	2.3	1.0	.4						11.7	8.4
S	3.6	3.3	2.5	.5		.2						10.2	5.6
SSW	1.8	1.2	.5	.5								3.9	5.0
SW	1.7	.5	.5	.1								2.7	4.0
WSW	.7	.5	.4									1.6	4.5
W	1.4	.7										2.2	2.7
WNW	1.5	.8	.2									2.6	3.8
NW	1.8	.8	.5	.2								3.3	4.0
NNW	2.2	2.5	1.8	1.4	.6							8.5	7.8
VARBL													
CALM												32.6	
	25.6	19.4	11.6	6.8	2.0	1.0						100.0	4.0

TOTAL NUMBER OF OBSERVATIONS

837

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
ATMOSPHERIC WEATHER SERVICE/MAC

# SURFACE WINDS

## PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS)

72-835  
STATION

FATHER AFB CA

STATION NAME

73-81

YEARS

DEC

MONTH

ALL WEATHER

CLASS

1200-1400

HOURS (L.S.T.)

CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 14	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	1.2	2.4	1.8	1.4	.8	.1						6.7	7.8
NNE	.4	.2										.6	3.6
NE	.5	.1	.1									.7	3.2
ENE	.6											.6	1.6
E	1.2	.2										1.4	2.7
ESE	.6	.4	.6	.1								1.7	5.5
SE	1.5	1.1	.5	.8	.2	.1						3.7	8.1
SSE	1.4	2.4	2.3	2.2	.8	.7	.1					9.9	10.1
S	2.3	3.9	2.9	.8	.1							10.0	6.0
SSW	3.2	1.9	.7	.7								6.6	4.6
SW	3.5	1.0	.2	.6								6.2	4.1
WSW	1.9	.7	.1	.1								2.9	3.3
W	1.0	1.7	.1	.2								3.8	3.8
WNW	2.3	1.6	.0									4.1	3.7
NW	2.5	2.4	2.4	.2	.1							7.6	5.4
NNW	2.2	3.2	1.4	2.2	1.2	.2						10.4	8.8
VARBL													
CALM												21.0	
	27.1	24.4	13.4	9.4	3.3	1.2	.1					100.0	5.0

TOTAL NUMBER OF OBSERVATIONS

837

1  
JL PAL CLIMATOLOGY BRANCH  
USAFETAC  
A. WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

SURFACE WINDS

835  
STATION

WATHER AFB CA

STATION NAME

77-81

YEARS

DEC  
MONTH

ALL WEATHER

CLASS

1500-1700

HOURE (L.S.T.)

CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	3.5	2.6	1.9	1.0	.5	.1						9.7	6.3
NNE	1.5	.6	.2		.1							1.9	4.7
NE	.4	.2										.8	2.1
ENE		.2										.2	4.0
E	.2	.5										.5	3.8
ESE	.4	.5	.2									1.2	4.8
SE	1.2	1.3	1.2	.5	.4	.2						5.4	7.0
SSE	2.5	2.4	1.6	1.9	.5	.6	.1					9.6	8.4
S	4.4	3.5	1.3	.5	.2	.1						10.1	5.2
SSW	.2	1.0	.8									4.0	4.2
SW	.3	1.2	.4	.4								4.2	4.3
WSW	1.4	.4	.2									2.5	3.7
W	1.3	1.5	.4	.1								2.8	4.3
WNW	.2	1.2	.1									3.5	2.9
NW	1.9	2.3	1.9	.1	.1							6.2	5.4
NNW	1.7	3.2	2.4	2.4	.6							13.2	8.1
VARBL													
CALM												27.3	
	47.2	22.4	12.7	6.8	2.4	1.1	.1					100.0	4.3

TOTAL NUMBER OF OBSERVATIONS

835

1  
GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

SURFACE WINDS

STATION 77-805 WATHER AFB CA STATION NAME 77-81 YEARS DEC  
MONTH 1800-2000  
CLASS ALL WEATHER  
CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 14	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	.1	2.2	1.6	1.6	.2	.1						8.8	6.8
NNE	1.7	.1										2.3	2.7
NE	1.8											1.8	2.1
ENE	.2	.1										1.0	2.4
E	2.4	.7	.2									3.4	3.0
ESE	4.4	3.2	.2	.1	.1							8.8	3.7
SE	3.7	4.6	.8	.2	.2	.4	.1					10.1	5.7
SSE	2.6	1.7	1.4	1.6	.5	.2						7.9	7.9
S	1.7	1.7	1.2	.7	.1	.1						4.8	7.1
SSW	.2	.1	.1	.1								1.6	4.3
SW	.7		.4									.8	5.1
WSW	.6											.6	1.8
W	.5	.1	.1									.8	3.6
WNW	.1	.1										.7	2.3
NW	1.6	1.2		.2								3.0	4.0
NNW	1.7	2.2	.6	.8								4.6	6.2
VARBL													
CALM												39.1	
	2.4	10.2	6.7	5.4	1.2	.8	.1					100.0	3.3

TOTAL NUMBER OF OBSERVATIONS 833

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AT WEATHER SERVICE/MAC

# **SURFACE WINDS**

## **PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS)**

73-81  
STATION NAME: MATHER AFB CA YEARS: 73-81 MONTH: DEC  
STATION: STATION NAME: YEARS: MONTH: 2100-2300  
ALL WEATHER CLASS: HOURS (L.S.T.):  
CONDITION:

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	1.2	2.4	2.2	.7	.4	.5						7.9	7.9
NNE	1.5	.5		.1								1.9	3.5
NE	2.4	.5										2.9	2.6
ENE	1.2	.5										2.3	2.7
E	2.2	1.7	.1									4.6	3.3
ESE	5.6	4.2	.4		.1							10.7	3.7
SE	2.5	5.4	1.3	.6	.4							10.8	5.4
SSE	2.2	2.5	1.4	1.8	.5	.7						9.0	8.9
S	1.3	1.7	.7	.8		.2						4.8	7.3
SSW	.2	.5										1.2	3.5
SW	.1											.1	2.0
WSW	.5	.1										.4	2.7
W	.2	.4										.6	3.6
WNW	.4											.4	1.7
NW	.2	1.4	.2									1.9	5.0
NNW	.7	1.2	1.2	.2	.1							3.5	6.8
VARBL													
CALM												37.2	
	24.5	23.6	7.6	4.3	1.4	1.4						100.0	3.5

TOTAL NUMBER OF OBSERVATIONS 834

1  
 FEDERAL CLIMATOLOGY BRANCH  
 USAFETAC  
 AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF WIND  
 DIRECTION AND SPEED  
 (FROM HOURLY OBSERVATIONS)

**SURFACE WINDS**

STATION 12 835 STATION NAME MATHER AFB CA YEARS 73-81

ALL WEATHER

CLASS

CONDITION

DEC MONTH

ALL HOURS (L.S.T.)

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 14	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	2.1	2.2	1.7	1.0	.5	.2						7.6	7.3
NNE	1.2	.4	.1	.0	.0							1.7	3.2
NE	1.6	.3	.7									1.9	2.5
ENE	1.1	.7	.7									1.5	2.7
E	1.7	.8	.1	.0								2.6	3.2
ESE	3.0	2.5	.3	.1	.7							5.9	3.9
SE	2.6	2.9	1.1	.6	.3	.2	.0	.0				7.7	6.2
SSE	1.9	2.3	2.0	1.8	.5	.4	.0					8.9	8.5
S	2.2	2.5	1.8	.8	.1	.1						7.5	6.4
SSW	1.3	.9	.4	.2	.0							2.8	4.6
SW	1.2	.5	.2	.1								2.1	4.2
WSW	.7	.3	.1	.0								1.2	3.7
W	.8	.3	.1	.1								1.5	3.6
WNW	1.1	.6	.1									1.7	3.3
NW	1.2	1.2	.7	.1	.0							3.2	4.9
NNW	1.2	2.1	1.5	1.2	.4	.0						6.4	7.7
VARBL													
CALM												35.7	
	24.8	20.4	10.2	6.0	1.8	.9	.1	.0				100.0	3.7

TOTAL NUMBER OF OBSERVATIONS 6687

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
ALL WEATHER SERVICE/MAC

## SURFACE WINDS

### PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS)

72-835 MATHER AFB CA

73-81

ALL

STATION

STATION NAME

YEARS

MONTH

ALL WEATHER

CLASS

ALL

HOURLY (L.S.T.)

CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	1.7	1.5	1.3	.8	.2	.0	.0					5.1	7.0
NNE	.7	.3	.1	.0	.0	.0						1.0	3.3
NE	.9	.3	.0	.0								1.0	2.6
ENE	.6	.2	.0	.0								.8	2.7
E	1.1	.5	.0	.0								1.7	3.1
ESE	2.8	2.6	.2	.0	.0							5.7	3.6
SE	7.4	5.2	.9	.3	.1	.0	.0	.0				9.8	4.6
SSE	2.6	3.9	1.7	.9	.3	.2	.1	.0				9.6	6.5
S	3.1	5.1	2.8	.8	.1	.0	.0	.0				11.7	5.7
SSW	7.0	3.3	2.8	.9	.1	.0						9.1	6.3
SW	1.4	2.3	2.6	1.1	.1	.0						7.5	7.0
WSW	.8	.9	.7	.2	.0							2.7	5.9
W	1.1	1.3	.4	.1	.0							2.9	4.5
WNW	1.0	1.1	.4	.1	.0	.0						2.6	4.5
NW	1.2	1.6	.9	.3	.1	.0						4.0	5.7
NNW	.9	1.6	1.5	1.1	.2	.1	.0					5.4	8.0
VARBL			.7									.0	9.0
CALM												19.2	
	24.6	31.5	16.3	6.6	1.1	.4	.1	.0				100.0	4.6

TOTAL NUMBER OF OBSERVATIONS

78841

1  
SIGNAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

# SURFACE WINDS

## PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS)

STATION 124435 WATHER AFB CA

73-81

ALL

STATION

STATION NAME

YEARS

MONTH

INSTRUMENT

CLASS

ALL

MOUSE (L.S.T.)

CIG LOW TO 1400 FT W/ VSBY 1/2 MI OR MORE,

CONDITION

AND/OR VSBY 1/2 TO 2-1/2 MI W/CIG 200 FT OR MORE

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 14	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	.3	2.5	.2	.2	.0							5.9	4.6
NNE	1.3	.7	.1									2.1	3.2
NE	1.2	.3										1.4	2.5
ENE	.5	.3	.1									1.2	2.8
E	1.4	.7	.2	.1								2.3	3.5
ESE	2.2	1.5	.4	.1								4.3	4.0
SE	2.6	2.5	1.2	.5	.1	.0						6.9	5.2
SSE	2.3	3.6	2.6	1.9	.6	.2	.1					11.3	7.9
S	3.5	4.2	3.3	1.4	.2	.1						12.5	6.3
SSW	1.6	1.6	.9	.4	.0							4.5	5.4
SW	1.6	.7	.4	.1	.1	.0						3.0	4.7
WSW	.9	.4	.2	.1								1.5	3.9
W	1.1	.6	.1	.1								1.9	3.4
WNW	1.0	.6	.1	.0								1.7	3.4
NW	1.6	1.2	.5	.0								3.3	4.1
NNW	1.3	2.0	1.1	.1								4.4	5.1
VARBL													
CALM												31.8	
	26.5	23.5	11.8	4.9	1.0	.3	.1					100.0	3.6

TOTAL NUMBER OF OBSERVATIONS

5520



U S AIR FORCE  
ENVIRONMENTAL TECHNICAL  
APPLICATIONS CENTER

## PART D CEILING VERSUS VISIBILITY

This summary is a bivariate percentage frequency distribution by classes of ceiling from zero to equal to or greater than 20,000 feet and as a separate class "no ceiling", versus visibility in 16 classes from zero to equal to or greater than 10 miles. Data are derived from hourly observations, and three sets of tables are presented as follows:

1. Annual - all years and all hours combined
2. By month - all years and all hours combined
3. By month - by standard 3-hour groups

Due to the cumulative nature of this presentation, it is possible to determine the percentage frequency of occurrence for any given limit of ceiling or visibility separately, or in combination of ceiling and visibility. The totals progress to the right and downward. Ceiling may be determined independently by referring to totals in the extreme right hand column. Also, visibility may be determined independently by reference to the horizontal row of totals at the bottom of the page. The percentage frequency for which the station was meeting or exceeding any given set of minima may be determined from the figure at the intersection of the appropriate ceiling column and visibility row. Several examples in the use of these tables are shown on pages 2 and 3 below.

U. S. Weather Bureau and Navy stations did not report ceilings within the range 10,000 feet and higher prior to January 1949. Summaries prepared from data for these stations using the earlier period and data subsequent to January 1949 will be modified to limit ceilings to 10,000 feet. Short periods of record prior to 1949 for these stations will be eliminated from the summary. For Air Force stations, the "no ceiling" category includes clear and scattered conditions, and ceilings above 20,000 feet for period through June 1948. Beginning in July 1948 for Air Force stations and January 1949 for USWB and U. S. Navy stations the "no ceiling" category consists of observations with less than 6/10 total sky cover and those cases where total sky cover is 6/10 or more, but not more than 1/2 of the sky cover is opaque.

Beginning in January 1968, METAR stations report visibilities to 6 miles and then greater than 6 miles. Thus, for METAR stations, the category equal to or greater than 10 miles is not printed in the tables, unless the summary was for a period ending before January 1968.

Continued on Reverse Side

EXAMPLES FOR USE OF CEILING VERSUS VISIBILITY TABLES IN THIS TABULATION

CEILING (FEET)	VISIBILITY (STATUTE MILES)															
	$\geq 10$	$\geq 6$	$\geq 5$	$\geq 4$	$\geq 3$	$\geq 2\frac{1}{2}$	$\geq 2$	$\geq 1\frac{1}{2}$	$\geq 1\frac{1}{4}$	$\geq 1$	$\geq \frac{3}{4}$	$\geq \frac{1}{2}$	$\geq \frac{1}{4}$	$\geq \frac{1}{8}$	$\geq 5/16$	$\geq 0$
NO CEILING																
1800																
1500					91.0											92.6
1200																
1000																
900																
800																
700																
600																
500										97.4						98.1
400																
300																
200																
100																
0					95.4		96.9			98.3						100.0

EXAMPLE # 1 Read ceiling values independently of visibility under column at right headed  $\geq 0$ .  
For instance, from the table: Ceiling  $\geq 1500$  feet = 92.6%.  
Ceiling  $\geq 500$  feet = 98.1%.

EXAMPLE # 2 Read visibilities independently of ceilings on bottom line opposite  $\geq 0$ . From the table:  
Visibility  $\geq 3$  miles = 95.4%.  
Visibility  $\geq 2$  miles = 96.9%.  
Visibility  $\geq 1$  mile = 98.3%.

EXAMPLE # 3 To obtain combinations of ceiling with visibility, read figure at intersection of the two categories; i.e.: Ceiling  $\geq 1500$  feet with visibility  $\geq 3$  miles = 91.0%.

#### ADDITIONAL EXAMPLES

(1) **EXAMPLE # 4** Values below minimums stated in the table may be obtained by subtracting the value given in the table from 100%. Thus, to obtain the percentage of observations with ceiling < 1500 feet and/or visibility < 3 miles, subtract the value read from the table at the intersection, which is 91.0, from 100.0. The answer 9.0 is the percentage of observations with ceiling < 1500 feet and/or visibility < 3 miles.

Likewise, the percentage of observations with ceiling < 500 feet and/or visibility < 1 mile is 2.6, obtained by subtracting 97.4 from 100.0.

**EXAMPLE # 5** To find the percentage of observations falling within the two categories given in example above, subtract the value read from the table for the first set of limits from the value in the table for the second set of limits. The difference will be the percentage of observations meeting the lower set of limits, but not meeting the higher set of limits.

The value 91.0 read from the table at the intersection of  $\geq 1500$  feet with  $\geq 3$  miles, subtracted from 97.4 read from the table at the intersection of  $\geq 500$  feet with  $\geq 1$  mile is equal to 6.4%. Thus; 6.4 percent of the observations meet the criteria: "ceiling  $\geq 500$  feet with visibility  $\geq 1$  mile, but < 3 miles; or ceiling  $\geq 500$  feet, but < 1500 feet with visibility  $\geq 1$  mile."

Since these tabulations are prepared in several ways including by month, by 3-hour groups it is possible to determine diurnal variations of ceiling and visibility limits as well as probabilities of various ceiling-visibility combinations.

CLIMATE CLIMATOLOGY BRANCH  
AFETAC  
AF WEATHER SERVICE/MAC

## CEILING VERSUS VISIBILITY

12-835 MATHER AFB CA

73-81

JAN

STATION

STATION NAME

YEARS

MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)

0000-0200  
HOURS (L.S.T.)

CEILING (FEET)	VISIBILITY STATUTE MILES															
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1¼	≥ 1	≥ ¾	≥ ½	≥ ¼	≥ 1/16	≥ 1/8	≥ 0
NO CEILING		32.6	35.2	36.9	41.5	41.9	42.9	44.2	44.9	45.5	46.0	46.1	46.5	46.7	47.7	47.9
≥ 20000		34.4	37.2	38.9	43.6	44.1	45.0	46.4	47.1	47.7	48.1	48.3	48.9	49.1	49.3	50.3
≥ 18000		34.8	37.5	39.3	44.0	44.4	45.4	46.8	47.6	48.1	48.6	48.7	49.3	49.6	49.8	50.8
≥ 16000		35.0	37.8	39.5	44.2	44.7	45.6	47.1	47.8	48.4	48.9	49.0	49.6	49.8	50.1	51.0
≥ 14000		35.6	38.4	40.1	44.8	45.5	46.5	47.9	48.6	49.2	49.7	49.8	50.4	50.7	50.9	51.9
≥ 12000		36.8	39.5	41.3	46.1	47.0	48.3	49.7	50.4	51.0	51.5	51.6	52.2	52.4	52.7	53.6
≥ 10000		34.3	40.7	42.5	47.6	48.5	50.1	51.5	52.2	52.8	53.3	53.4	54.0	54.2	54.6	55.6
≥ 9000		38.0	40.7	42.5	47.6	48.5	50.1	51.5	52.2	52.8	53.3	53.4	54.0	54.2	54.6	55.6
≥ 8000		39.7	42.5	44.3	50.1	51.1	52.7	54.1	55.0	55.7	56.2	56.3	57.0	57.2	57.6	58.8
≥ 7000		42.4	43.4	45.2	50.9	52.0	53.6	55.1	55.9	56.6	57.1	57.2	57.9	58.2	58.5	59.7
≥ 6000		41.5	43.6	45.5	51.5	52.6	54.2	55.7	56.6	57.3	57.8	57.9	58.7	58.9	59.3	60.5
≥ 5000		43.0	46.2	48.1	54.1	55.4	57.5	58.9	60.0	60.8	61.3	61.4	62.1	62.4	62.7	63.9
≥ 4500		46.0	48.3	50.3	56.6	57.9	60.0	61.4	62.5	63.3	63.9	64.0	64.8	65.0	65.4	66.5
≥ 4000		46.8	51.2	52.2	58.7	60.0	62.1	63.8	64.9	65.7	66.3	66.4	67.1	67.4	67.7	68.9
≥ 3500		44.4	51.7	53.8	60.2	61.5	63.7	65.4	66.4	67.3	67.9	68.0	68.7	68.9	69.3	70.5
≥ 3000		52.3	55.9	58.1	64.9	66.2	68.3	70.0	71.1	71.9	72.5	72.6	73.4	73.6	74.0	75.1
≥ 2500		52.7	56.3	58.4	65.2	66.5	68.7	70.4	71.4	72.3	72.9	73.0	73.7	74.0	74.3	75.5
≥ 2000		54.0	57.6	60.0	66.9	68.2	70.5	72.5	73.6	74.4	75.0	75.1	75.9	76.1	76.5	77.7
≥ 1800		54.4	58.1	60.5	67.5	68.8	71.1	73.1	74.2	75.0	75.6	75.7	76.5	76.7	77.1	78.3
≥ 1500		54.7	58.5	61.2	68.2	69.7	71.9	74.0	75.0	75.9	76.5	76.6	77.4	77.7	78.0	79.2
≥ 1200		55.6	59.5	62.2	70.4	71.9	74.4	76.7	77.8	78.6	79.2	79.3	80.2	80.4	80.8	82.0
≥ 1000		55.8	59.7	62.5	70.7	72.4	75.4	77.8	78.9	79.7	80.3	80.4	81.2	81.5	81.8	83.0
≥ 900		55.8	59.7	62.5	71.0	72.6	75.7	78.4	79.5	80.3	80.9	81.0	81.8	82.1	82.4	83.6
≥ 800		56.0	60.0	62.8	71.4	73.2	76.5	79.1	80.2	81.0	81.6	81.7	82.6	82.8	83.2	84.3
≥ 700		56.2	60.1	63.0	72.4	74.4	77.8	80.4	81.5	82.3	82.9	83.0	83.9	84.1	84.5	85.7
≥ 600		56.3	60.2	63.1	72.6	74.7	78.0	80.6	81.7	82.6	83.2	83.3	84.1	84.3	84.7	85.9
≥ 500		56.3	60.3	63.4	73.1	75.1	79.0	81.6	82.7	83.5	84.1	84.2	85.2	85.4	85.8	87.1
≥ 400		56.3	60.7	63.8	74.1	76.7	80.6	83.4	84.6	85.5	86.1	86.3	87.2	87.6	87.9	89.2
≥ 300		56.4	60.8	63.9	74.2	77.2	81.7	84.8	86.0	87.1	87.7	87.8	88.8	89.2	90.0	91.4
≥ 200		56.4	60.8	63.9	74.2	77.2	81.7	84.8	86.1	87.6	88.3	88.4	89.4	90.1	91.4	93.0
≥ 100		56.4	60.8	63.9	74.2	77.2	81.7	84.8	86.1	87.6	88.3	88.5	89.7	90.7	93.7	96.5
≥ 0		56.4	60.8	63.9	74.2	77.2	81.7	84.8	86.1	87.6	88.3	88.5	89.7	90.8	93.8	100.0

TOTAL NUMBER OF OBSERVATIONS 837

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
ALL WEATHER SERVICE/MAC

## CEILING VERSUS VISIBILITY

24835  
STATION

KATHER AFB CA  
STATION NAME

73-81  
YEARS

JAN  
MONTH

### PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

0300-0500  
HOURS (L.S.T.)

CEILING (FEET)	VISIBILITY STATUTE MILES															
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1¼	≥ 1	≥ ¾	≥ ½	≥ ¼	≥ 5/16	≥ ¼	≥ 0
NO CEILING		31.1	32.9	35.1	36.6	37.1	37.9	38.8	39.2	40.3	40.3	40.3	40.8	40.8	41.2	42.3
≥ 20000		32.7	34.2	36.7	38.5	39.1	40.0	41.0	41.4	42.4	42.4	42.4	43.3	43.3	43.8	44.8
≥ 18000		32.0	34.2	36.7	38.7	39.3	40.3	41.2	41.6	42.7	42.7	42.7	43.5	43.5	44.0	45.1
≥ 16000		32.0	34.2	36.7	38.7	39.3	40.3	41.2	41.6	42.7	42.7	42.7	43.5	43.5	44.0	45.1
≥ 14000		32.6	34.9	37.5	39.8	40.4	41.4	42.3	42.7	43.8	43.8	43.8	44.6	44.6	45.1	46.2
≥ 12000		34.4	36.7	39.3	41.6	42.3	43.6	44.7	45.1	46.2	46.2	46.2	47.0	47.0	47.5	48.6
≥ 10000		36.7	39.1	42.0	44.2	45.1	46.4	47.8	48.2	49.3	49.3	49.3	50.1	50.1	50.6	51.7
≥ 9000		36.7	39.1	42.0	44.2	45.1	46.4	47.8	48.2	49.3	49.3	49.3	50.1	50.1	50.6	51.7
≥ 8000		38.6	41.0	44.1	46.9	47.7	49.4	50.8	51.2	52.3	52.4	52.4	53.4	53.5	54.0	55.0
≥ 7000		39.4	41.8	45.0	47.7	48.6	50.2	51.7	52.0	53.1	53.2	53.2	54.2	54.3	54.8	55.9
≥ 6000		40.5	42.9	46.0	48.8	49.6	51.3	52.8	53.1	54.2	54.3	54.3	55.3	55.4	55.9	57.0
≥ 5000		42.7	45.1	48.2	51.0	51.9	53.6	55.0	55.4	56.7	57.0	57.0	57.9	58.0	58.5	59.6
≥ 4500		44.2	46.6	49.8	52.8	53.7	55.4	56.8	57.2	58.5	58.8	58.8	59.7	59.8	60.3	61.4
≥ 4000		45.9	48.3	51.4	54.4	55.4	57.1	58.5	58.9	60.2	60.4	60.4	61.4	61.5	62.0	63.1
≥ 3500		47.8	50.2	53.5	56.5	57.4	59.1	60.6	60.9	62.2	62.5	62.5	63.4	63.5	64.0	65.1
≥ 3000		50.6	53.1	56.4	59.4	60.3	62.1	63.8	64.1	65.5	65.7	65.7	66.7	66.8	67.3	68.3
≥ 2500		51.0	53.6	56.8	59.8	60.9	62.7	64.4	64.7	66.1	66.3	66.3	67.3	67.4	67.9	68.9
≥ 2000		52.8	55.8	59.2	62.4	63.4	65.2	66.9	67.3	68.6	68.8	68.8	69.8	69.9	70.4	71.6
≥ 1800		53.2	56.6	60.2	63.3	64.4	66.2	67.9	68.2	69.5	69.8	69.8	70.7	70.9	71.3	72.5
≥ 1500		54.0	57.7	61.6	65.0	66.5	68.3	70.0	70.4	71.7	71.9	71.9	72.9	73.0	73.5	74.7
≥ 1200		54.3	58.2	62.5	67.0	68.6	70.7	72.4	72.8	74.1	74.3	74.3	75.3	75.4	75.9	77.1
≥ 1000		54.7	58.5	62.9	67.5	69.1	71.7	73.5	73.9	75.2	75.4	75.4	76.4	76.5	77.0	78.2
≥ 900		55.0	58.9	63.3	68.0	69.5	72.4	74.2	74.6	75.9	76.1	76.1	77.1	77.2	77.7	78.9
≥ 800		55.2	59.0	63.4	68.2	69.9	72.9	74.7	75.1	76.4	76.6	76.6	77.6	77.7	78.2	79.4
≥ 700		55.4	59.2	63.7	69.1	70.9	73.9	76.0	76.4	77.7	77.9	77.9	78.9	79.0	79.5	80.7
≥ 600		55.4	59.2	63.7	69.5	71.6	74.6	76.7	77.1	78.4	78.7	78.7	79.6	79.7	80.2	81.4
≥ 500		55.4	59.5	63.9	70.5	72.5	76.1	78.3	78.7	80.0	80.2	80.2	81.2	81.3	81.9	83.3
≥ 400		55.4	59.8	64.3	70.9	72.9	76.5	79.0	79.4	80.8	81.2	81.2	82.1	82.4	83.0	84.8
≥ 300		55.4	59.8	64.3	70.9	73.4	77.2	79.9	80.5	81.9	82.7	82.7	83.7	84.1	85.0	87.1
≥ 200		55.5	60.0	64.4	71.3	73.9	77.7	80.7	81.5	83.8	85.0	85.0	86.6	87.3	88.8	91.4
≥ 100		55.6	60.1	64.5	71.5	74.0	77.8	80.8	82.0	84.3	85.6	85.6	87.2	88.5	90.8	96.2
≥ 0		55.6	60.1	64.5	71.5	74.0	77.8	80.8	82.0	84.3	85.6	85.6	87.2	88.7	91.1	100.0

TOTAL NUMBER OF OBSERVATIONS 834

GLOBAL CLIMATOLOGY BRANCH  
USAF ETAC  
AF WEATHER SERVICE/MAC

# CEILING VERSUS VISIBILITY

72-935

MATHER AFB CA

73-81

JAN

STATION

STATION NAME

YEARS

MONTH

## PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

0600-0800  
HOURS (L.S.T.)

CEILING (FEET)	VISIBILITY STATUTE MILES															
	≥10	≥6	≥5	≥4	≥3	≥2½	≥2	≥1½	≥1¼	≥1	¾	¾	¾	¾	¾	≥0
NO CEILING		24.6	27.0	28.6	30.6	31.5	32.3	32.8	33.6	34.6	35.0	35.2	35.3	35.6	36.0	37.0
≥ 20000		25.6	28.7	30.4	32.7	33.7	34.9	35.5	36.4	37.3	37.8	37.9	38.2	38.5	39.0	40.1
≥ 18000		25.7	28.9	31.0	33.3	34.4	35.6	36.2	37.1	38.0	38.5	38.6	38.9	39.2	39.7	40.8
≥ 16000		26.2	29.4	31.5	33.7	34.9	36.1	36.7	37.6	38.5	39.0	39.1	39.4	39.7	40.2	41.3
≥ 14000		26.6	29.8	31.8	34.2	35.4	36.7	37.3	38.2	39.1	39.6	39.7	40.0	40.3	40.8	41.9
≥ 12000		28.1	31.5	33.9	36.4	37.6	39.0	39.6	40.4	41.4	41.9	42.0	42.2	42.6	43.1	44.1
≥ 10000		30.1	33.5	36.0	38.5	39.7	41.3	42.0	42.8	43.8	44.3	44.4	44.6	45.0	45.5	46.5
≥ 9000		30.1	33.5	36.0	38.5	39.7	41.3	42.0	42.8	43.8	44.3	44.4	44.6	45.0	45.5	46.5
≥ 8000		32.2	35.6	38.2	40.8	42.0	43.9	45.0	45.9	47.2	47.7	47.8	48.1	48.4	48.9	50.0
≥ 7000		33.6	37.1	39.6	42.2	43.4	45.3	46.4	47.4	48.8	49.4	49.5	49.8	50.1	50.6	51.7
≥ 6000		34.7	38.2	40.7	43.3	44.5	46.4	47.5	48.4	49.9	50.5	50.6	50.8	51.2	51.7	52.8
≥ 5000		37.4	41.3	43.9	46.5	48.1	50.0	51.2	52.2	53.6	54.2	54.3	54.5	54.9	55.4	56.5
≥ 4500		39.0	43.3	46.1	48.8	50.4	52.3	53.6	54.5	56.0	56.6	56.7	56.9	57.3	57.8	58.9
≥ 4000		40.2	44.6	47.4	50.1	51.7	53.6	54.9	55.9	57.3	57.9	58.0	58.3	58.6	59.1	60.2
≥ 3500		42.0	46.5	49.3	52.0	53.6	55.5	56.8	57.8	59.2	59.9	59.9	60.2	60.5	61.0	62.1
≥ 3000		44.5	49.0	51.8	54.8	56.5	58.4	59.8	60.8	62.2	62.8	62.9	63.2	63.5	64.0	65.1
≥ 2500		45.2	50.1	53.0	56.1	57.8	59.7	61.2	62.2	63.6	64.2	64.4	64.6	65.0	65.4	66.5
≥ 2000		46.2	51.3	54.3	57.5	59.2	61.2	62.8	63.8	65.3	66.0	66.1	66.4	66.7	67.2	68.3
≥ 1800		46.5	51.7	54.7	57.9	59.6	61.6	63.2	64.1	65.7	66.4	66.5	66.7	67.1	67.6	68.7
≥ 1500		47.0	52.5	55.7	59.6	61.2	63.3	65.0	65.9	67.5	68.2	68.3	68.5	68.9	69.4	70.5
≥ 1200		48.2	53.8	57.5	61.8	63.8	65.9	67.6	68.7	70.2	71.2	71.3	71.5	71.9	72.4	73.4
≥ 1000		43.7	54.4	58.4	62.7	64.7	67.1	68.8	70.0	71.5	72.5	72.6	72.8	73.2	73.7	74.8
≥ 900		48.9	54.7	58.6	63.0	65.2	67.9	69.6	70.8	72.4	73.3	73.4	73.7	74.2	74.6	75.7
≥ 800		49.0	54.8	59.0	63.4	65.6	68.4	70.3	71.5	73.1	74.0	74.2	74.4	74.9	75.4	76.4
≥ 700		49.2	55.0	59.2	63.6	65.8	68.8	70.7	71.9	73.6	74.5	74.6	74.9	75.5	76.1	77.2
≥ 600		49.3	55.1	59.3	64.0	66.4	69.4	71.4	72.6	74.3	75.2	75.4	75.6	76.3	76.9	78.0
≥ 500		49.8	55.6	59.8	65.0	67.5	71.1	73.4	75.1	76.9	78.0	78.1	78.6	79.5	80.3	81.5
≥ 400		49.9	55.9	60.0	65.6	68.2	72.1	75.1	76.9	78.9	80.3	80.4	81.5	82.4	83.3	84.7
≥ 300		50.0	56.0	60.2	65.8	68.5	72.8	76.7	79.2	81.7	83.3	83.4	84.8	86.1	87.4	89.5
≥ 200		50.0	56.0	60.2	65.8	68.5	73.0	77.0	79.9	83.3	85.0	85.4	87.3	89.2	91.5	94.4
≥ 100		50.0	56.0	60.2	65.8	68.5	73.0	77.0	79.9	83.3	85.4	85.9	88.0	90.4	93.4	98.7
≥ 0		50.0	56.0	60.2	65.8	68.5	73.0	77.0	79.9	83.3	85.4	85.9	88.0	90.4	93.5	100.0

TOTAL NUMBER OF OBSERVATIONS 836

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

# CEILING VERSUS VISIBILITY

724835  
STATION

MATHER AFB CA  
STATION NAME

73-81  
YEARS

JAN  
MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)

0900-1100  
HOURS (L.S.T.)

CEILING (FEET)	VISIBILITY STATUTE MILES															
	≥10	≥6	≥5	≥4	≥3	≥2½	≥2	≥1½	≥1¼	≥1	¾	¾	¾	¾	≥5/16	≥¼
NO CEILING		22.8	25.6	27.6	31.4	31.4	32.4	33.3	33.7	33.9	33.9	33.9	34.2	34.2	34.3	34.4
≥ 20000		24.3	27.8	30.3	33.9	35.0	36.1	37.4	37.8	38.0	38.0	38.0	38.3	38.4	38.5	38.7
≥ 18000		24.3	27.8	30.3	34.1	35.1	36.2	37.5	37.9	38.1	38.1	38.1	38.4	38.5	38.6	38.9
≥ 16000		24.5	28.1	30.6	34.3	35.4	36.5	37.8	38.1	38.4	38.4	38.4	38.6	38.7	38.9	39.1
≥ 14000		25.0	28.5	31.3	35.3	36.3	37.7	39.1	39.5	39.7	39.7	39.7	40.0	40.1	40.2	40.4
≥ 12000		26.2	29.8	32.7	36.9	38.1	39.5	41.0	41.4	41.6	41.6	41.6	41.9	42.0	42.1	42.4
≥ 10000		28.5	32.5	35.4	39.6	40.8	42.2	43.9	44.4	44.9	44.9	44.9	45.1	45.2	45.4	45.6
≥ 9000		26.5	32.5	35.4	39.8	41.0	42.5	44.3	44.8	45.4	45.4	45.5	45.7	45.8	46.0	46.2
≥ 8000		30.0	34.1	37.2	41.8	43.1	44.5	46.5	46.9	47.5	47.5	47.7	47.9	48.0	48.1	48.4
≥ 7000		31.9	36.0	39.2	43.8	45.2	46.7	49.0	49.6	50.2	50.3	50.4	50.7	50.8	50.9	51.1
≥ 6000		33.1	37.3	40.6	45.1	46.6	48.0	50.4	51.3	51.9	52.0	52.1	52.3	52.5	52.6	52.8
≥ 5000		35.3	39.7	43.2	48.0	49.5	50.9	53.4	54.3	54.9	55.0	55.1	55.4	55.5	55.6	55.8
≥ 4500		36.7	41.2	44.8	49.7	51.1	52.6	55.1	56.0	56.6	56.7	56.8	57.0	57.2	57.3	57.5
≥ 4000		38.4	43.1	46.6	51.5	52.9	54.5	57.3	58.1	58.7	58.8	59.0	59.2	59.3	59.4	59.7
≥ 3500		40.0	44.5	48.1	53.1	54.5	56.1	58.8	59.7	60.3	60.4	60.5	60.8	60.9	61.0	61.3
≥ 3000		41.8	46.5	50.2	55.4	56.9	58.7	61.5	62.3	62.9	63.1	63.2	63.4	63.5	63.7	63.9
≥ 2500		42.7	47.5	51.5	56.8	58.5	60.3	63.1	63.9	64.5	64.6	64.7	65.0	65.1	65.2	65.5
≥ 2000		43.3	48.3	52.7	58.4	60.0	61.9	64.6	65.5	66.2	66.3	66.4	66.7	66.8	66.9	67.1
≥ 1800		43.4	49.0	53.5	59.2	60.9	62.9	65.7	66.5	67.3	67.4	67.5	67.7	67.9	68.0	68.2
≥ 1500		44.6	50.2	54.9	61.0	62.7	65.0	67.7	68.6	69.3	69.4	69.6	69.8	69.9	70.0	70.3
≥ 1200		45.2	50.9	55.7	62.3	64.6	66.9	69.7	70.5	71.2	71.4	71.5	71.7	71.8	72.0	72.2
≥ 1000		46.1	51.9	56.7	63.3	65.6	67.9	71.0	71.8	72.6	72.7	72.8	73.0	73.2	73.3	73.5
≥ 900		46.1	51.9	56.8	63.8	66.1	68.6	71.8	72.7	73.4	73.5	73.6	73.9	74.0	74.1	74.4
≥ 800		46.3	52.1	57.2	64.4	66.9	69.4	73.4	74.4	75.1	75.2	75.3	75.6	75.7	75.8	76.1
≥ 700		46.5	52.5	57.6	65.3	68.1	70.6	74.7	75.7	76.4	76.5	76.7	76.9	77.0	77.1	77.4
≥ 600		46.6	52.8	58.2	65.9	69.2	72.1	76.5	77.6	78.3	78.5	78.6	78.8	78.9	79.1	79.3
≥ 500		46.6	52.8	58.2	66.2	69.9	73.5	78.8	80.4	81.2	81.8	82.1	82.4	82.6	82.8	83.0
≥ 400		46.6	52.8	58.4	66.4	70.4	74.6	81.9	83.5	85.2	86.4	86.6	87.4	87.7	88.0	88.4
≥ 300		46.6	52.8	58.4	66.4	70.8	75.1	83.0	85.3	87.0	89.3	89.8	91.1	91.9	92.5	93.0
≥ 200		46.6	52.8	58.4	66.4	70.8	75.1	83.3	85.8	87.7	90.6	91.5	93.4	94.8	96.1	98.2
≥ 100		46.6	52.8	58.4	66.4	70.8	75.1	83.3	85.8	87.7	90.6	91.5	93.4	94.8	96.4	99.6
≥ 0		46.6	52.8	58.4	66.4	70.8	75.1	83.3	85.8	87.7	90.6	91.5	93.4	94.8	96.4	100.0

TOTAL NUMBER OF OBSERVATIONS 831

GLOBAL CLIMATOLOGY BRANCH  
 AFSS/ETAC  
 AIR WEATHER SERVICE/MAC

# CEILING VERSUS VISIBILITY

124835  
 STATION

MATHER AFB CA  
 STATION NAME

73-51  
 YEARS

JAN  
 MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE  
 (FROM HOURLY OBSERVATIONS)

1200-1400  
 HOURS (L.S.T.)

CEILING (FEET)	VISIBILITY: STATUTE MILES															
	≥10	≥6	≥5	≥4	≥3	≥2½	≥2	≥1½	≥1¼	≥1	¾	¾	¾	≥5/16	¾	≥0
NO CEILING		25.7	27.8	3.2	34.9	35.5	36.1	36.5	36.8	36.9	36.9	36.9	36.9	37.0	37.0	37.0
≥ 20000		28.2	31.1	34.4	42.3	41.1	42.1	42.8	43.0	43.1	43.1	43.1	43.1	43.3	43.3	43.3
≥ 18000		26.6	31.1	34.9	41.0	41.8	42.8	43.5	43.8	43.9	43.9	43.9	43.9	44.0	44.0	44.0
≥ 16000		28.6	31.1	34.9	41.1	41.9	42.9	43.6	43.9	44.0	44.0	44.0	44.0	44.1	44.1	44.1
≥ 14000		29.1	31.9	35.6	41.8	42.7	43.6	44.4	44.6	44.7	44.7	44.7	44.7	44.8	44.8	44.8
≥ 12000		31.4	34.5	38.6	44.8	45.7	46.6	47.4	47.6	47.7	47.7	47.7	47.7	47.8	47.8	47.8
≥ 10000		33.7	37.0	41.2	47.8	48.7	49.8	50.7	51.0	51.2	51.2	51.2	51.2	51.3	51.3	51.3
≥ 9000		34.4	37.7	41.9	48.6	49.6	51.0	51.9	52.2	52.4	52.4	52.4	52.4	52.5	52.5	52.5
≥ 8000		35.4	39.4	44.6	51.3	52.5	53.8	54.9	55.2	55.4	55.4	55.4	55.4	55.5	55.5	55.5
≥ 7000		36.9	40.6	45.8	53.1	54.6	56.0	57.1	57.6	57.8	57.8	57.8	57.8	57.9	57.9	57.9
≥ 6000		37.4	41.2	46.4	53.7	55.2	56.6	57.7	58.2	58.4	58.5	58.5	58.5	58.7	58.7	58.7
≥ 5000		38.8	42.7	48.0	55.6	57.1	58.5	59.6	60.1	60.3	60.5	60.5	60.5	60.6	60.6	60.6
≥ 4500		39.8	43.6	49.9	56.6	58.1	59.5	60.6	61.1	61.3	61.4	61.4	61.4	61.5	61.5	61.5
≥ 4000		42.4	46.5	52.0	60.0	61.4	62.9	64.1	64.5	64.8	64.9	64.9	64.9	65.0	65.0	65.0
≥ 3500		43.3	47.4	53.0	60.9	62.4	63.8	65.1	65.6	65.9	66.0	66.0	66.0	66.1	66.1	66.1
≥ 3000		45.1	49.4	55.3	63.5	65.0	66.7	68.1	68.6	68.9	69.0	69.0	69.0	69.1	69.1	69.1
≥ 2500		45.9	50.5	56.6	65.4	66.9	68.8	70.3	70.8	71.0	71.2	71.2	71.2	71.3	71.3	71.3
≥ 2000		47.0	51.7	57.9	67.1	68.6	70.6	72.2	72.7	73.0	73.1	73.1	73.1	73.2	73.2	73.2
≥ 1800		47.2	51.9	58.2	67.5	69.1	71.0	72.8	73.3	73.6	73.7	73.7	73.7	73.8	73.8	73.8
≥ 1500		48.6	53.4	59.7	69.7	71.8	73.8	75.7	76.2	76.4	76.6	76.6	76.6	76.7	76.7	76.7
≥ 1200		49.6	54.8	61.7	72.4	74.5	76.7	78.6	79.1	79.4	79.6	79.6	79.6	79.7	79.7	79.7
≥ 1000		50.1	55.4	62.5	74.0	76.3	78.8	80.8	81.3	81.6	81.7	81.7	81.7	81.9	81.9	81.9
≥ 900		51.2	55.5	62.7	74.6	77.7	80.0	82.1	82.6	82.9	83.1	83.1	83.1	83.2	83.2	83.2
≥ 800		50.5	55.8	63.0	75.2	78.5	82.1	84.5	85.0	85.3	85.5	85.5	85.5	85.7	85.7	85.7
≥ 700		50.6	55.9	63.3	76.1	79.6	83.2	85.7	86.3	86.8	86.9	86.9	86.9	87.0	87.1	87.1
≥ 600		50.7	56.0	63.5	76.3	80.5	84.6	87.9	88.5	89.1	89.2	89.2	89.3	89.4	89.4	89.4
≥ 500		50.7	56.0	63.6	76.6	81.3	85.9	90.4	91.5	92.4	92.9	92.9	93.0	93.1	93.1	93.1
≥ 400		51.7	56.0	63.6	76.7	81.9	87.1	92.8	94.2	95.7	96.4	96.4	96.5	96.6	96.6	96.6
≥ 300		50.7	56.0	63.6	76.9	82.3	87.7	93.9	95.4	97.2	98.3	98.3	98.6	98.7	98.7	98.7
≥ 200		50.7	56.0	63.6	76.9	82.3	87.7	94.0	95.6	97.5	98.8	98.9	99.3	99.4	99.4	99.5
≥ 100		51.7	56.0	63.6	76.9	82.3	87.7	94.0	95.6	97.5	98.8	98.9	99.3	99.5	99.5	99.6
≥ 0		51.7	56.0	63.6	76.9	82.3	87.7	94.0	95.6	97.5	98.8	98.9	99.3	99.5	99.6	100.0

TOTAL NUMBER OF OBSERVATIONS 832



GLOBAL CLIMATOLOGY BRANCH  
USAF ETAC  
AIR WEATHER SERVICE/MAC

## CEILING VERSUS VISIBILITY

72835  
STATION

NATHER AFB CA  
STATION NAME

73-81  
YEARS

JAN  
MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)

1500-1700  
HOURS (L.S.T.)

CEILING (FEET)	VISIBILITY STATUTE MILES															
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1¼	≥ 1	≥ ¾	≥ ½	≥ ¼	≥ 5/16	≥ ¼	≥ 0
NO CEILING		31.3	34.7	37.2	41.7	42.6	43.3	43.4	44.0	44.4	44.5	44.5	44.6	44.6	44.6	44.6
≥ 20000		34.5	31.2	41.8	47.6	48.6	49.4	49.6	50.2	50.7	50.8	50.8	51.0	51.0	51.0	51.0
≥ 18000		34.9	33.7	42.3	48.1	49.1	49.9	50.1	50.7	51.3	51.4	51.4	51.6	51.6	51.6	51.6
≥ 16000		34.9	33.7	42.3	48.2	49.2	50.0	50.2	50.8	51.4	51.6	51.6	51.7	51.7	51.7	51.7
≥ 14000		35.3	39.3	42.9	48.9	49.9	50.8	51.1	51.7	52.3	52.4	52.4	52.5	52.5	52.5	52.5
≥ 12000		37.2	41.6	45.2	51.2	52.2	53.1	53.4	54.0	54.6	54.7	54.7	54.8	54.8	54.8	54.8
≥ 10000		35.6	43.3	47.1	53.6	54.6	56.1	56.4	57.0	57.6	57.7	57.7	57.8	57.8	57.8	57.8
≥ 9000		37.3	44.4	48.6	55.0	56.0	57.6	57.8	58.4	59.0	59.1	59.1	59.2	59.2	59.2	59.2
≥ 8000		42.4	43.1	52.5	59.2	60.6	62.1	62.4	62.9	63.5	63.7	63.7	63.8	63.8	63.8	63.8
≥ 7000		42.3	43.4	53.0	60.6	62.0	63.7	63.9	64.5	65.2	65.3	65.3	65.5	65.5	65.5	65.5
≥ 6000		42.9	48.6	53.1	60.7	62.2	63.9	64.3	64.9	65.7	65.8	65.8	65.9	65.9	65.9	65.9
≥ 5000		44.4	50.2	54.9	62.1	65.0	66.7	67.0	67.6	68.5	68.6	68.6	68.7	68.7	68.7	68.7
≥ 4500		44.7	50.6	55.4	63.8	65.9	67.6	68.0	68.6	69.4	69.5	69.5	69.7	69.7	69.7	69.7
≥ 4000		45.7	51.6	56.4	64.7	66.9	68.6	68.9	69.5	70.4	70.5	70.5	70.6	70.6	70.6	70.6
≥ 3500		45.4	52.4	57.2	65.7	68.1	69.8	70.1	70.7	71.6	71.7	71.7	71.8	71.8	71.8	71.8
≥ 3000		45.7	55.3	60.6	69.3	71.9	73.9	74.7	75.4	76.3	76.4	76.4	76.5	76.5	76.5	76.5
≥ 2500		49.6	56.6	62.2	71.1	73.7	75.8	76.9	77.6	78.5	78.7	78.7	78.8	78.8	78.8	78.8
≥ 2000		51.3	57.9	63.9	73.0	75.7	77.7	78.9	79.7	80.7	80.8	80.8	80.9	80.9	80.9	80.9
≥ 1800		51.1	58.4	65.0	74.1	76.9	78.9	80.1	80.9	81.9	82.0	82.0	82.1	82.1	82.1	82.1
≥ 1500		51.3	59.4	65.9	76.1	79.0	81.2	82.4	83.2	84.2	84.3	84.3	84.4	84.4	84.4	84.4
≥ 1200		52.3	61.1	67.5	78.5	81.8	84.7	86.1	86.9	87.9	88.0	88.0	88.1	88.1	88.1	88.1
≥ 1000		52.6	61.4	67.9	79.9	83.5	86.7	88.5	89.3	90.5	90.6	90.6	90.8	90.8	90.8	90.8
≥ 900		52.6	61.6	68.3	80.1	84.3	87.9	89.8	90.6	91.8	92.0	92.0	92.1	92.1	92.1	92.1
≥ 800		52.8	60.9	68.3	80.6	84.9	88.7	91.1	92.0	93.3	93.4	93.4	93.6	93.6	93.6	93.6
≥ 700		52.8	60.9	68.3	80.7	85.3	89.4	92.2	93.0	94.5	94.6	94.6	94.8	94.8	94.8	94.8
≥ 600		52.8	61.0	68.5	80.9	85.9	90.3	93.4	94.2	95.7	95.8	95.8	96.0	96.0	96.0	96.0
≥ 500		52.8	61.2	68.6	81.1	86.0	90.6	94.1	95.2	96.6	96.8	96.8	97.0	97.0	97.0	97.0
≥ 400		52.8	61.2	68.6	81.5	86.6	91.6	95.9	97.0	98.6	98.8	98.8	99.0	99.0	99.2	99.2
≥ 300		52.8	61.2	68.6	81.8	86.8	91.8	96.2	97.2	98.8	99.0	99.0	99.3	99.3	99.4	99.4
≥ 200		52.8	61.2	68.6	81.8	86.8	91.8	96.2	97.2	98.8	99.0	99.0	99.4	99.5	99.6	99.6
≥ 100		52.8	61.2	68.6	81.8	86.8	91.8	96.2	97.2	98.8	99.0	99.0	99.5	99.6	99.8	99.9
≥ 0		52.8	61.2	68.6	81.8	86.8	91.8	96.2	97.2	98.8	99.0	99.0	99.5	99.6	99.8	100.0

TOTAL NUMBER OF OBSERVATIONS 834

GLOBAL CLIMATOLOGY BRANCH  
AFM/TAC  
AIR WEATHER SERVICE/MAC

# CEILING VERSUS VISIBILITY

120835

MATHER AFB CA

73-81

JAN

STATION

STATION NAME

YEARS

MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)

1800-2000  
HOURS (L.S.T.)

CEILING (FEET)	VISIBILITY - STATUTE MILES															
	≥10	≥6	≥5	≥4	≥3	≥2½	≥2	≥1½	≥1¼	≥1	≥¾	≥½	≥¼	≥1/8	≥1/4	≥0
NO CEILING		37.2	39.1	41.5	44.8	48.1	46.7	47.1	47.6	47.6	47.6	47.6	47.6	47.7	47.7	47.8
≥ 20000		39.4	41.6	44.1	48.3	49.8	50.4	50.8	51.3	51.3	51.3	51.3	51.3	51.4	51.4	51.5
≥ 18000		39.4	41.6	44.1	48.3	49.8	50.4	50.8	51.3	51.3	51.3	51.3	51.3	51.4	51.4	51.5
≥ 16000		39.7	41.9	44.4	48.6	51.2	50.8	51.1	51.6	51.6	51.6	51.6	51.6	51.7	51.7	51.9
≥ 14000		39.9	42.3	44.8	49.3	51.0	51.9	52.2	52.7	52.7	52.7	52.7	52.7	52.8	52.8	52.9
≥ 12000		42.4	44.8	47.3	51.9	53.5	54.4	54.8	55.3	55.3	55.3	55.3	55.3	55.4	55.4	55.6
≥ 10000		44.1	46.5	49.0	54.1	56.1	57.0	57.5	57.9	57.9	57.9	57.9	57.9	58.1	58.1	58.2
≥ 9000		44.7	47.1	49.6	54.7	56.6	57.6	58.1	58.5	58.5	58.5	58.5	58.5	58.7	58.7	58.8
≥ 8000		48.5	51.0	53.6	59.0	60.9	62.2	62.7	63.2	63.2	63.2	63.2	63.2	63.3	63.3	63.4
≥ 7000		49.1	51.6	54.4	59.9	61.9	63.3	63.8	64.3	64.3	64.3	64.3	64.3	64.4	64.4	64.5
≥ 6000		49.7	52.2	55.0	60.5	62.6	64.0	64.5	65.0	65.0	65.0	65.0	65.0	65.1	65.1	65.2
≥ 5000		51.1	53.6	56.4	62.1	64.5	65.9	66.4	66.9	66.9	66.9	66.9	66.9	67.0	67.0	67.1
≥ 4500		52.6	55.4	58.3	64.2	66.7	68.1	68.6	69.1	69.1	69.1	69.1	69.1	69.2	69.2	69.3
≥ 4000		52.8	55.8	58.7	64.5	67.0	68.5	68.9	69.4	69.4	69.4	69.4	69.4	69.5	69.5	69.7
≥ 3500		53.6	56.8	59.6	65.6	68.2	69.3	70.3	70.7	70.7	70.7	70.7	70.7	70.8	70.8	71.0
≥ 3000		56.8	60.3	63.4	69.7	72.3	74.0	74.4	74.7	74.9	74.9	74.9	74.9	75.0	75.0	75.1
≥ 2500		57.7	61.3	64.6	71.1	73.7	75.5	76.0	76.5	76.5	76.5	76.5	76.5	76.6	76.6	76.7
≥ 2000		59.1	63.1	66.9	74.4	77.4	79.2	79.7	80.4	80.4	80.4	80.4	80.4	80.5	80.5	80.6
≥ 1800		59.5	63.8	67.6	75.3	78.3	80.0	80.5	81.2	81.2	81.2	81.2	81.2	81.4	81.4	81.5
≥ 1500		60.2	64.8	68.9	76.8	80.2	82.1	82.7	83.4	83.4	83.4	83.4	83.4	83.5	83.5	83.6
≥ 1200		60.3	65.2	70.0	78.3	81.6	84.1	84.7	85.4	85.4	85.4	85.4	85.4	85.5	85.5	85.7
≥ 1000		60.7	65.7	70.6	79.2	82.8	85.7	86.3	87.0	87.0	87.0	87.0	87.0	87.1	87.1	87.2
≥ 900		60.7	65.7	70.6	79.6	83.5	86.4	87.3	88.1	88.1	88.1	88.1	88.1	88.2	88.2	88.3
≥ 800		60.9	66.1	71.2	80.2	84.3	87.3	88.5	89.2	89.2	89.2	89.2	89.2	89.4	89.4	89.5
≥ 700		60.9	66.1	71.2	80.4	84.7	88.3	89.7	90.4	90.4	90.4	90.4	90.4	90.6	90.6	90.7
≥ 600		61.1	66.4	71.6	80.8	85.3	89.1	90.8	91.5	91.5	91.5	91.5	91.5	91.6	91.6	91.8
≥ 500		61.1	66.4	71.6	80.8	85.4	89.8	91.9	92.6	92.6	92.6	92.6	92.6	92.7	92.7	92.8
≥ 400		61.1	66.4	71.6	80.9	86.0	91.2	93.9	94.7	94.7	94.7	94.7	94.7	94.9	94.9	95.0
≥ 300		61.1	66.4	71.6	81.0	86.4	91.6	94.5	95.5	95.5	95.5	95.5	95.5	95.6	95.6	95.7
≥ 200		61.1	66.4	71.6	81.0	86.4	92.0	94.9	95.9	96.1	96.1	96.1	96.1	96.3	96.3	96.5
≥ 100		61.1	66.4	71.6	81.0	86.4	92.0	94.9	96.1	96.3	96.4	96.4	96.4	96.8	96.8	97.1
≥ 0		61.1	66.4	71.6	81.0	86.4	92.0	94.9	96.1	96.3	96.4	96.4	96.4	96.8	96.8	97.1

TOTAL NUMBER OF OBSERVATIONS 837

GLOBAL CLIMATOLOGY BRANCH  
USAF ETAC  
AF WEATHER SERVICE/MAC

## CEILING VERSUS VISIBILITY

701835  
STATION

MATHER AFB CA  
STATION NAME

73-31  
YEARS

JAN  
MONTH

### PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

2100-2300  
HOURS (L.S.T.)

CEILING (FEET)	VISIBILITY STATUTE MILES															
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1¼	≥ 1	≥ ¾	≥ ½	≥ ¼	≥ 1/16	≥ 0	≥ 0
NO CEILING ≥ 20000		36.1	37.7	39.6	44.0	44.3	45.5	46.2	47.1	47.4	47.6	47.6	47.8	47.8	47.8	48.9
≥ 18000 ≥ 16000		36.4	39.7	42.3	46.8	47.2	48.4	49.1	49.9	50.3	50.4	50.4	50.8	50.8	50.8	51.9
≥ 14000 ≥ 12000		37.6	40.9	43.6	48.3	48.6	49.8	50.5	51.4	51.7	51.9	51.9	52.2	52.2	52.2	53.3
≥ 10000 ≥ 9000		40.6	44.1	47.0	52.2	52.7	54.0	54.7	55.7	56.0	56.2	56.2	56.6	56.6	56.6	57.8
≥ 8000 ≥ 7000		42.7	46.1	49.1	55.0	55.6	57.5	58.2	59.1	59.5	59.6	59.6	60.1	60.1	60.1	61.3
≥ 6000 ≥ 5000		43.4	46.8	50.1	55.9	56.5	58.9	59.6	60.7	61.1	61.2	61.2	61.6	61.6	61.6	62.8
≥ 4500 ≥ 4000		44.4	47.9	51.3	57.1	57.7	60.1	60.9	62.0	62.4	62.5	62.5	63.0	63.0	63.0	64.2
≥ 3500 ≥ 3000		46.5	50.3	53.6	60.0	60.6	63.0	63.8	64.9	65.2	65.4	65.4	65.8	65.8	65.8	67.0
≥ 2500 ≥ 2000		47.7	51.6	55.0	61.3	61.9	64.4	65.2	66.3	66.7	66.8	66.8	67.3	67.3	67.3	68.5
≥ 1800 ≥ 1500		49.1	53.3	56.6	63.2	63.8	66.3	67.1	68.2	68.6	68.7	68.7	69.2	69.2	69.2	70.4
≥ 1200 ≥ 1000		53.5	57.9	61.5	68.2	68.8	71.3	72.2	73.2	73.6	73.7	73.7	74.2	74.2	74.2	75.4
≥ 900 ≥ 800		55.2	59.6	64.3	71.6	72.2	74.7	75.6	76.7	77.1	77.2	77.2	77.7	77.7	77.7	78.9
≥ 700 ≥ 600		55.6	61.2	66.3	74.2	75.3	77.7	78.6	79.7	80.0	80.2	80.2	80.6	80.6	80.6	81.8
≥ 500 ≥ 400		56.9	62.1	67.5	76.0	76.9	79.9	81.0	82.1	82.4	82.6	82.6	83.0	83.0	83.0	84.2
≥ 300 ≥ 200		57.0	62.2	67.6	76.2	77.3	80.8	82.0	83.0	83.4	83.5	83.5	84.0	84.0	84.0	85.2
≥ 100 ≥ 0		57.2	62.5	67.9	76.6	77.7	81.4	82.6	83.6	84.0	84.1	84.1	84.6	84.6	84.6	85.8
		57.6	62.8	68.5	77.8	79.1	82.8	84.1	85.2	85.5	85.7	85.7	86.1	86.1	86.1	87.3
		57.7	63.2	68.8	78.5	79.9	83.6	85.2	86.3	86.6	86.7	86.7	87.2	87.2	87.2	88.4
		57.7	63.2	68.8	78.9	80.3	84.5	86.0	87.1	87.5	87.6	87.6	88.1	88.1	88.1	89.2
		57.7	63.2	69.8	79.1	80.8	85.5	87.1	88.2	88.5	88.6	88.6	89.1	89.1	89.1	90.3
		57.8	63.3	68.9	79.3	81.7	87.0	88.6	89.7	90.2	90.3	90.3	91.0	91.0	91.0	92.2
		57.8	63.3	68.9	79.5	82.0	87.8	89.5	90.6	91.0	91.2	91.2	92.0	92.0	92.2	93.4
		57.8	63.3	68.9	79.5	82.0	87.9	89.6	90.8	91.3	91.8	91.8	92.8	93.0	93.2	94.4
		57.8	63.3	68.9	79.5	82.0	87.9	89.6	90.8	91.4	91.9	91.9	93.5	93.7	94.7	97.0
		57.8	63.3	68.9	79.5	82.0	87.9	89.6	90.8	91.4	91.9	91.9	93.5	93.7	94.7	100.0

TOTAL NUMBER OF OBSERVATIONS 837

GLOBAL CLIMATOLOGY BRANCH  
AFETAC  
AIR WEATHER SERVICE/MAC

# CEILING VERSUS VISIBILITY

12-835

WATHER AFB CA

73-81

JAN

STATION

STATION NAME

YEARS

MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)

ALL

HOURE (L.C.T.)

CEILING (FEET)	VISIBILITY STATUTE MILES															
	≥10	≥6	≥5	≥4	≥3	≥2½	≥2	≥1½	≥1¼	≥1	¾	¾	¾	¾	¾	≥0
NO CEILING		33.0	32.5	34.6	38.1	38.8	39.6	40.3	40.9	41.3	41.5	41.5	41.7	41.8	42.0	42.5
≥ 20000		31.8	34.7	37.3	41.4	42.3	43.2	44.0	44.6	45.1	45.2	45.2	45.6	45.7	45.8	46.4
≥ 18000		32.0	35.0	37.6	41.8	42.7	43.6	44.4	45.0	45.5	45.6	45.7	46.0	46.1	46.3	46.8
≥ 16000		32.2	35.1	37.8	42.0	42.9	43.8	44.6	45.2	45.7	45.8	45.9	46.2	46.3	46.5	47.0
≥ 14000		32.7	35.7	38.5	42.8	43.7	44.8	45.6	46.2	46.7	46.8	46.8	47.2	47.3	47.4	48.0
≥ 12000		34.4	37.6	40.4	44.8	45.8	47.0	47.9	48.4	48.9	49.1	49.1	49.4	49.5	49.7	50.3
≥ 10000		36.3	39.6	42.5	47.2	48.3	49.6	50.6	51.2	51.7	51.8	51.9	52.2	52.3	52.5	53.1
≥ 9000		36.6	39.9	42.9	47.6	48.7	50.1	51.0	51.6	52.2	52.3	52.4	52.7	52.8	53.0	53.6
≥ 8000		38.7	42.2	45.5	50.5	51.7	53.3	54.3	54.9	55.6	55.7	55.8	56.1	56.2	56.4	57.1
≥ 7000		39.6	43.2	46.4	51.7	52.9	54.6	55.7	56.3	57.0	57.2	57.2	57.6	57.7	57.9	58.5
≥ 6000		40.3	43.9	47.2	52.4	53.7	55.4	56.6	57.3	57.9	58.1	58.2	58.6	58.7	58.9	59.5
≥ 5000		42.2	45.9	49.3	54.7	56.2	57.9	59.1	59.8	60.5	60.7	60.8	61.1	61.3	61.5	62.1
≥ 4500		43.6	47.4	50.9	56.6	58.1	59.8	61.0	61.7	62.4	62.7	62.7	63.1	63.2	63.4	64.0
≥ 4000		45.0	47.7	52.5	58.2	59.7	61.5	62.7	63.4	64.2	64.4	64.4	64.8	64.9	65.1	65.7
≥ 3500		46.3	51.4	53.9	59.7	61.2	63.0	64.3	65.0	65.7	66.0	66.0	66.4	66.5	66.7	67.3
≥ 3000		49.2	53.4	57.2	63.1	64.7	66.7	68.1	68.8	69.5	69.8	69.8	70.2	70.3	70.5	71.1
≥ 2500		49.8	54.3	58.2	64.3	66.0	67.9	69.4	70.1	70.9	71.1	71.1	71.5	71.6	71.8	72.4
≥ 2000		51.0	55.7	59.9	66.4	68.1	70.1	71.7	72.5	73.2	73.5	73.5	73.9	74.0	74.2	74.8
≥ 1800		51.4	56.2	60.5	67.1	68.9	70.9	72.5	73.3	74.0	74.3	74.3	74.7	74.8	75.0	75.6
≥ 1500		52.2	57.2	61.8	68.8	70.8	72.9	74.5	75.3	76.1	76.3	76.4	76.7	76.8	77.0	77.7
≥ 1200		52.8	58.1	63.1	70.8	73.0	75.4	77.1	77.9	78.7	79.0	79.0	79.4	79.5	79.7	80.3
≥ 1000		53.2	58.6	63.6	71.7	74.0	76.8	78.6	79.4	80.2	80.5	80.5	80.9	81.0	81.2	81.8
≥ 900		53.3	58.7	63.8	72.1	74.5	77.6	79.5	80.3	81.1	81.4	81.4	81.8	81.9	82.1	82.8
≥ 800		53.5	58.9	64.2	72.7	75.3	78.5	80.7	81.6	82.4	82.7	82.7	83.1	83.2	83.4	84.1
≥ 700		53.7	59.1	64.4	73.3	76.1	79.5	81.8	82.7	83.5	83.8	83.9	84.3	84.4	84.6	85.3
≥ 600		53.7	59.3	64.6	73.6	76.7	80.3	82.9	83.8	84.7	85.0	85.0	85.4	85.6	85.8	86.4
≥ 500		53.8	59.4	64.7	74.0	77.3	81.5	84.5	85.5	86.5	86.9	86.9	87.4	87.6	87.9	88.5
≥ 400		53.8	59.5	64.9	74.4	78.0	82.6	86.3	87.5	88.7	89.3	89.3	90.0	90.2	90.5	91.3
≥ 300		53.8	59.6	64.9	74.6	78.4	83.2	87.3	88.7	90.0	90.9	91.0	91.7	92.1	92.6	93.5
≥ 200		53.9	59.6	64.9	74.6	78.5	83.4	87.6	89.1	90.7	91.8	92.0	93.1	93.7	94.6	95.9
≥ 100		53.9	59.6	65.0	74.6	78.5	83.4	87.6	89.2	90.9	92.0	92.2	93.4	94.2	95.7	98.2
≥ 0		53.9	59.6	65.0	74.6	78.5	83.4	87.6	89.2	90.9	92.0	92.2	93.4	94.3	95.8	100.0

TOTAL NUMBER OF OBSERVATIONS 6678

USAF ETAC FORM 0-14-5 (OL A) PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

# CEILING VERSUS VISIBILITY

72-835 MATHER AFB CA

73-81

FEB

STATION

STATION NAME

YEARS

MONTH

## PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

0000-0200  
HOURS (LST)

CEILING (FEET)	VISIBILITY STATUTE MILES															
	≥10	≥6	≥5	≥4	≥3	≥2½	≥2	≥1½	≥1¼	≥1	≥¾	≥½	≥¼	≥5/16	≥¼	≥0
NO CEILING		49.5	51.9	53.4	55.7	56.4	56.8	56.9	56.9	56.9	57.0	57.0	57.0	57.0	57.0	57.0
≥ 20000		53.6	56.2	57.8	61.4	61.2	61.6	61.8	61.8	61.8	61.9	61.9	61.9	61.9	61.9	61.9
≥ 18000		53.7	56.4	58.0	60.6	61.4	61.8	61.9	61.9	61.9	62.0	62.0	62.0	62.0	62.0	62.0
≥ 16000		53.7	56.4	58.0	60.6	61.4	61.8	61.9	61.9	61.9	62.0	62.0	62.0	62.0	62.0	62.0
≥ 14000		54.8	57.4	59.1	61.9	62.7	63.1	63.2	63.2	63.2	63.3	63.3	63.3	63.3	63.3	63.3
≥ 12000		56.2	59.1	61.1	63.9	64.7	65.0	65.6	65.6	65.6	65.7	65.7	65.7	65.7	65.7	65.7
≥ 10000		59.9	62.8	64.8	67.5	68.3	68.9	69.4	69.4	69.5	69.6	69.6	69.6	69.6	69.6	69.6
≥ 9000		60.3	63.2	65.2	67.9	68.7	69.3	69.8	69.8	69.9	70.0	70.0	70.0	70.0	70.0	70.0
≥ 8000		64.5	67.7	69.6	72.7	73.5	74.0	74.5	74.5	74.6	74.8	74.8	74.8	74.8	74.8	74.8
≥ 7000		65.2	69.6	70.6	73.6	74.4	74.9	75.4	75.4	75.6	75.7	75.7	75.7	75.7	75.7	75.7
≥ 6000		66.1	69.8	71.7	74.8	75.6	76.1	76.6	76.6	76.7	76.9	76.9	76.9	76.9	76.9	76.9
≥ 5000		67.8	71.5	73.5	76.5	77.3	77.8	78.3	78.3	78.6	78.7	78.7	78.7	78.7	78.7	78.7
≥ 4500		71.9	75.6	77.5	80.7	81.5	82.0	82.5	82.5	82.8	82.9	82.9	82.9	82.9	82.9	82.9
≥ 4000		73.2	77.1	79.1	82.5	83.3	83.8	84.4	84.4	84.6	84.8	84.8	84.8	84.8	84.8	84.8
≥ 3500		74.9	79.8	81.3	84.9	85.7	86.2	86.7	86.7	87.0	87.1	87.1	87.1	87.1	87.1	87.1
≥ 3000		77.9	82.4	85.0	88.6	89.4	89.9	90.4	90.4	90.9	91.1	91.1	91.1	91.1	91.1	91.1
≥ 2500		78.4	83.2	85.9	89.5	90.3	90.8	91.6	91.6	92.1	92.2	92.2	92.2	92.2	92.2	92.2
≥ 2000		80.4	85.2	88.0	91.9	92.6	93.2	94.2	94.2	94.7	94.9	94.9	94.9	94.9	94.9	94.9
≥ 1800		80.6	85.5	88.4	92.2	93.0	93.6	94.6	94.6	95.1	95.3	95.3	95.3	95.3	95.3	95.3
≥ 1500		81.1	86.2	89.1	92.9	93.7	94.2	95.3	95.3	95.8	95.9	95.9	95.9	95.9	95.9	95.9
≥ 1200		81.5	86.7	89.8	93.6	94.3	95.0	96.1	96.1	96.6	96.7	96.7	96.7	96.7	96.7	96.7
≥ 1000		81.6	86.9	89.9	93.7	94.5	95.1	96.2	96.2	96.7	96.8	96.8	96.8	96.8	96.8	96.8
≥ 900		81.6	86.9	89.9	94.0	94.7	95.4	96.5	96.5	97.0	97.1	97.1	97.1	97.1	97.1	97.1
≥ 800		81.6	86.9	89.9	94.0	94.7	95.4	96.5	96.5	97.0	97.1	97.1	97.1	97.1	97.1	97.1
≥ 700		81.6	86.9	89.9	94.2	95.0	95.8	96.8	96.8	97.5	97.6	97.6	97.6	97.6	97.6	97.6
≥ 600		81.6	86.9	89.9	94.2	95.0	95.8	96.8	96.8	97.5	97.6	97.6	97.6	97.6	97.6	97.6
≥ 500		81.6	86.9	89.9	94.2	95.0	95.8	97.1	97.1	97.8	97.9	97.9	97.9	97.9	97.9	97.9
≥ 400		81.6	86.9	89.9	94.2	95.0	95.9	97.2	97.2	97.9	98.2	98.2	98.2	98.2	98.2	98.2
≥ 300		81.6	86.9	89.9	94.2	95.0	95.9	97.2	97.2	97.9	98.2	98.2	98.3	98.3	98.6	98.9
≥ 200		81.6	86.9	89.9	94.2	95.0	96.1	97.5	97.5	98.2	98.4	98.4	98.7	98.7	98.9	99.5
≥ 100		81.6	86.9	89.9	94.2	95.0	96.1	97.5	97.5	98.2	98.4	98.4	98.7	98.7	99.1	99.9
≥ 0		81.6	86.9	89.9	94.2	95.0	96.1	97.5	97.5	98.2	98.4	98.4	98.7	98.7	99.2	100.0

TOTAL NUMBER OF OBSERVATIONS 761

GENERAL CLIMATOLOGY BRANCH  
AFETAC  
AIR WEATHER SERVICE/MAC

# CEILING VERSUS VISIBILITY

77-835

HATHER AFB CA

73-81

FEB

STATION

STATION NAME

YEARS

MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)

0300-0500  
HOURS (L.S.T.)

CEILING (FEET)	VISIBILITY STATUTE MILES															
	≥10	≥6	≥5	≥4	≥3	≥2½	≥2	≥1½	≥1¼	≥1	¾	¾	¾	¾	≥5/16	≥¼
NO CEILING		46.6	48.6	49.7	51.3	51.4	51.7	52.1	52.2	52.2	52.5	52.5	52.5	52.5	52.5	52.5
≥20000		52.2	54.3	55.5	57.3	57.5	57.9	58.3	58.4	58.4	58.7	58.7	58.7	58.7	58.7	58.7
≥18000		52.4	54.5	55.6	57.5	57.6	58.0	58.4	58.5	58.5	58.8	58.8	58.8	58.8	58.8	58.8
≥16000		52.5	54.6	55.8	57.6	57.7	58.1	58.5	58.7	58.7	58.9	58.9	58.9	58.9	58.9	58.9
≥14000		53.3	55.4	56.6	58.4	58.5	58.9	59.3	59.4	59.4	59.7	59.7	59.7	59.7	59.7	59.7
≥12000		54.7	57.1	58.7	60.5	60.8	61.2	61.5	61.7	61.7	61.9	61.9	61.9	61.9	61.9	61.9
≥10000		59.4	61.8	63.4	65.4	65.9	66.3	66.7	66.8	66.8	67.1	67.1	67.1	67.1	67.1	67.1
≥9000		60.0	62.3	63.9	65.9	66.4	66.8	67.2	67.3	67.3	67.6	67.6	67.6	67.6	67.6	67.6
≥8000		63.0	65.5	67.1	69.4	69.9	70.3	70.7	70.9	70.9	71.1	71.1	71.1	71.1	71.1	71.1
≥7000		63.8	66.4	68.0	70.3	70.9	71.3	71.7	71.8	71.8	72.0	72.0	72.0	72.0	72.0	72.0
≥6000		65.0	67.7	69.3	71.7	72.2	72.6	73.0	73.1	73.1	73.4	73.4	73.4	73.4	73.4	73.4
≥5000		67.3	70.1	71.7	74.0	74.5	74.9	75.3	75.5	75.5	75.7	75.7	75.7	75.7	75.7	75.7
≥4500		69.6	72.3	74.0	76.4	77.2	77.7	78.1	78.2	78.2	78.5	78.5	78.5	78.5	78.5	78.5
≥4000		71.4	75.2	77.2	79.5	80.3	80.8	81.2	81.4	81.4	81.6	81.6	81.6	81.6	81.6	81.6
≥3500		74.3	77.0	79.5	81.9	82.7	83.2	83.6	83.7	83.7	84.0	84.0	84.0	84.0	84.0	84.0
≥3000		76.6	79.4	82.0	84.4	85.2	85.7	86.1	86.2	86.5	86.9	86.9	86.9	86.9	86.9	86.9
≥2500		78.3	81.5	84.1	86.5	87.3	87.8	88.2	88.3	88.6	89.0	89.0	89.0	89.0	89.0	89.0
≥2000		81.7	84.0	86.6	89.0	89.8	90.3	90.7	90.8	91.1	91.5	91.5	91.5	91.5	91.5	91.5
≥1800		80.8	84.1	86.7	89.2	90.0	90.6	90.9	91.1	91.3	91.7	91.7	91.7	91.7	91.7	91.7
≥1500		81.5	84.8	87.7	90.3	91.1	91.6	92.1	92.3	92.5	92.9	92.9	92.9	92.9	92.9	92.9
≥1200		82.3	85.8	88.8	91.5	92.4	92.9	93.4	93.6	93.8	94.2	94.2	94.2	94.2	94.2	94.2
≥1000		82.5	86.1	89.1	91.7	92.8	93.4	94.0	94.1	94.4	94.8	94.8	94.8	94.8	94.8	94.8
≥900		82.8	86.4	89.4	92.0	93.0	93.8	94.4	94.5	94.8	95.1	95.1	95.1	95.1	95.1	95.1
≥800		82.9	86.5	89.5	92.1	93.2	94.0	94.5	94.6	94.9	95.3	95.3	95.3	95.3	95.3	95.3
≥700		83.1	86.6	89.6	92.4	93.4	94.2	94.8	95.0	95.3	95.7	95.7	95.7	95.7	95.7	95.7
≥600		83.1	86.6	89.6	92.4	93.4	94.2	94.8	95.0	95.3	95.7	95.7	95.7	95.7	95.7	95.7
≥500		83.1	86.6	89.6	92.4	93.4	94.2	95.0	95.3	95.5	95.9	95.9	95.9	95.9	95.9	96.1
≥400		83.2	86.7	89.8	92.5	93.6	94.4	95.3	95.5	95.8	96.2	96.3	96.6	96.6	96.6	96.7
≥300		83.2	86.7	89.8	92.5	93.6	94.4	95.3	95.5	95.9	96.3	96.5	96.7	96.9	97.0	97.8
≥200		83.2	86.7	89.8	92.5	93.6	94.4	95.3	95.5	95.9	96.5	96.6	96.9	97.1	97.4	98.8
≥100		83.2	86.7	89.8	92.5	93.6	94.4	95.3	95.5	95.9	96.5	96.6	97.1	97.4	97.6	99.6
≥0		83.2	86.7	89.8	92.5	93.6	94.4	95.3	95.5	95.9	96.5	96.6	97.1	97.4	97.6	100.0

TOTAL NUMBER OF OBSERVATIONS 762

CLIMATE CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

## CEILING VERSUS VISIBILITY

720835  
STATION

MATHER AFB CA  
STATION NAME

73-81  
YEARS

FEB  
MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)

0600-0800  
HOURS (L.C.T.)

CEILING (FEET)	VISIBILITY STATUTE MILES															
	≥10	≥6	≥5	≥4	≥3	≥2½	≥2	≥1½	≥1¼	≥1	≥¾	≥½	≥¼	≥3/16	≥¼	≥0
NO CEILING		37.1	39.9	41.1	44.0	44.1	44.9	45.1	45.3	45.3	45.3	45.3	45.5	45.5	45.8	46.3
≥ 20000		42.1	45.4	47.0	50.0	50.1	51.0	51.4	51.7	52.0	52.1	52.1	52.4	52.4	52.8	53.5
≥ 18000		42.8	46.1	47.6	50.7	50.8	51.7	52.1	52.4	52.6	52.8	52.9	53.1	53.1	53.5	54.5
≥ 16000		42.9	46.2	47.8	50.8	50.9	51.8	52.2	52.5	52.8	52.9	53.0	53.3	53.3	53.7	54.6
≥ 14000		43.7	47.1	48.6	51.6	51.7	52.6	53.0	53.3	53.5	53.7	53.8	54.1	54.1	54.5	55.4
≥ 12000		45.4	47.1	50.5	53.7	53.8	55.0	55.4	55.6	55.9	56.0	56.2	56.4	56.4	56.8	57.7
≥ 10000		49.5	53.1	54.7	58.1	58.5	59.8	60.2	60.5	60.8	60.9	61.0	61.3	61.3	61.7	62.6
≥ 9000		49.6	53.3	54.9	58.3	58.7	60.0	60.4	60.6	60.9	61.0	61.2	61.4	61.4	61.8	62.7
≥ 8000		52.6	56.7	58.3	61.7	62.2	63.5	63.9	64.2	64.4	64.6	64.7	65.0	65.0	65.4	66.3
≥ 7000		53.5	57.9	59.4	62.9	63.4	64.7	65.1	65.4	65.6	65.7	65.9	66.1	66.1	66.5	67.5
≥ 6000		54.6	59.2	60.9	64.3	64.8	66.1	66.5	66.8	67.1	67.2	67.3	67.6	67.6	68.0	68.9
≥ 5000		57.6	62.3	64.3	67.7	68.2	69.6	69.9	70.2	70.5	70.6	70.7	71.0	71.0	71.4	72.3
≥ 4500		61.2	66.3	68.4	72.2	72.7	74.0	74.4	74.7	74.9	75.2	75.3	75.6	75.6	76.0	76.9
≥ 4000		63.3	68.5	70.6	74.4	74.9	76.2	76.6	76.9	77.2	77.4	77.6	77.8	77.8	78.2	79.1
≥ 3500		64.4	70.1	72.3	76.1	76.6	78.0	78.3	78.6	78.9	79.1	79.3	79.5	79.5	79.9	80.8
≥ 3000		66.9	72.7	74.9	78.7	79.3	80.7	81.1	81.4	81.6	81.9	82.0	82.4	82.4	82.8	83.7
≥ 2500		68.6	74.8	77.3	81.2	81.9	83.3	83.9	84.1	84.4	84.6	84.8	85.2	85.2	85.6	86.5
≥ 2000		70.2	76.8	79.7	83.7	84.4	85.8	86.4	86.6	86.9	87.1	87.3	87.7	87.7	88.1	89.0
≥ 1800		70.6	77.2	80.1	84.1	84.8	86.2	86.7	87.0	87.3	87.5	87.7	88.1	88.1	88.5	89.4
≥ 1500		72.0	78.9	82.3	86.6	87.3	89.5	90.3	90.7	90.9	91.2	91.3	91.7	91.7	92.1	93.0
≥ 1200		72.2	79.0	82.5	86.9	87.7	89.9	90.9	91.3	91.6	91.9	92.0	92.4	92.4	92.8	93.7
≥ 1000		72.2	79.0	82.7	87.0	87.8	90.0	91.1	91.5	91.7	92.0	92.1	92.5	92.5	92.9	93.8
≥ 900		72.2	79.1	82.8	87.1	87.9	90.2	91.2	91.6	91.9	92.1	92.3	92.7	92.7	93.0	94.0
≥ 800		72.2	79.1	82.9	87.3	88.1	90.4	91.5	91.9	92.1	92.4	92.5	92.9	92.9	93.3	94.2
≥ 700		72.2	79.1	82.9	87.3	88.1	90.8	91.9	92.3	92.5	92.8	92.9	93.3	93.3	93.7	94.6
≥ 600		72.2	79.1	82.9	87.3	88.1	90.8	91.9	92.3	92.5	92.8	92.9	93.3	93.3	93.7	94.8
≥ 500		72.2	79.1	82.9	87.3	88.2	90.9	92.1	92.5	92.8	93.0	93.2	93.6	93.7	94.1	95.1
≥ 400		72.3	79.3	83.2	87.5	88.5	91.2	92.4	92.8	93.0	93.3	93.4	93.8	94.0	94.8	96.2
≥ 300		72.4	79.4	83.3	87.7	88.6	91.3	92.5	92.9	93.2	93.4	93.6	94.0	94.2	95.3	96.7
≥ 200		72.4	79.4	83.5	87.8	88.8	91.6	92.8	93.3	93.6	94.1	94.4	95.0	95.4	96.7	98.6
≥ 100		72.4	79.5	83.6	87.9	89.0	91.7	92.9	93.4	93.8	94.4	94.6	95.4	95.8	97.4	100.0
≥ 0		72.4	79.5	83.6	87.9	89.0	91.7	92.9	93.4	93.8	94.4	94.6	95.4	95.8	97.4	100.0

TOTAL NUMBER OF OBSERVATIONS 762

GLOBAL CLIMATOLOGY BRANCH  
USAF ETAC  
AIR WEATHER SERVICE/MAC

## CEILING VERSUS VISIBILITY

724835  
STATION

MATHER AFB CA  
STATION NAME

73-81  
YEARS

FEB  
MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)

0900-1100  
HOURS (L.C.V.)

CEILING (FEET)	VISIBILITY STATUTE MILES															
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1¼	≥ 1	≥ ¾	≥ ½	≥ ¼	≥ 1/16	≥ 1/8	≥ 0
NO CEILING		37.9	41.9	42.9	44.6	45.0	45.3	45.4	45.4	45.4	45.4	45.4	45.4	45.4	45.4	45.7
≥ 20000		45.5	49.5	52.0	54.5	54.9	55.6	55.9	55.9	55.9	55.9	55.9	55.9	56.0	56.0	56.3
≥ 18000		46.2	50.1	52.6	55.1	55.5	56.4	56.7	56.7	56.7	56.7	56.7	56.7	56.8	56.8	57.1
≥ 16000		46.3	50.3	52.8	55.2	55.6	56.6	56.8	56.8	56.8	56.8	56.8	56.8	57.0	57.0	57.2
≥ 14000		47.5	51.4	53.9	56.6	57.2	58.3	58.7	58.7	58.7	58.7	58.7	58.7	58.8	58.8	59.1
≥ 12000		49.1	53.1	55.6	58.7	59.3	62.5	60.9	61.0	61.0	61.0	61.0	61.0	61.2	61.2	61.4
≥ 10000		51.6	55.6	58.3	61.5	62.2	63.4	63.8	63.9	64.0	64.0	64.0	64.0	64.2	64.2	64.4
≥ 9000		51.8	55.9	58.5	61.8	62.5	63.6	64.0	64.2	64.3	64.3	64.3	64.3	64.4	64.4	64.7
≥ 8000		54.6	58.9	61.7	65.1	65.7	66.9	67.3	67.5	67.6	67.6	67.6	67.6	67.7	67.7	68.0
≥ 7000		55.8	60.1	62.9	66.3	66.9	68.1	68.5	68.6	68.8	68.8	68.8	68.8	68.9	68.9	69.2
≥ 6000		57.1	61.7	64.4	67.8	68.5	69.7	70.1	70.2	70.3	70.3	70.3	70.3	70.5	70.5	70.7
≥ 5000		60.9	66.0	69.0	72.4	73.1	74.3	74.7	74.8	74.9	74.9	74.9	74.9	75.1	75.1	75.3
≥ 4500		62.7	68.2	71.7	75.3	76.0	77.3	77.7	77.8	78.0	78.0	78.0	78.1	78.1	78.1	78.3
≥ 4000		66.8	73.1	77.0	81.1	81.8	83.1	83.5	83.6	83.7	83.7	83.7	83.7	83.9	83.9	84.1
≥ 3500		68.1	74.7	78.7	82.8	83.6	84.9	85.3	85.4	85.6	85.6	85.6	85.7	85.7	85.7	86.0
≥ 3000		70.1	76.6	80.8	85.0	85.8	87.1	87.7	87.8	87.9	87.9	87.9	88.1	88.1	88.1	88.3
≥ 2500		70.6	77.3	81.5	85.7	86.5	87.8	88.3	88.5	88.6	88.6	88.6	88.7	88.7	88.7	89.0
≥ 2000		72.6	79.8	84.1	88.3	89.2	90.6	91.1	91.2	91.3	91.3	91.3	91.5	91.5	91.5	91.7
≥ 1800		73.0	80.2	84.5	89.0	89.9	91.5	92.0	92.1	92.3	92.3	92.3	92.4	92.4	92.4	92.7
≥ 1500		73.4	80.6	84.9	89.9	90.9	93.0	93.6	93.7	93.8	93.8	93.8	94.0	94.0	94.0	94.2
≥ 1200		73.6	80.8	85.3	90.3	91.5	93.6	94.2	94.4	94.5	94.5	94.5	94.6	94.6	94.6	94.9
≥ 1000		74.0	81.2	85.8	90.9	92.3	94.4	95.0	95.1	95.3	95.3	95.3	95.4	95.4	95.4	95.7
≥ 900		74.0	81.2	85.8	90.9	92.3	94.4	95.0	95.1	95.3	95.3	95.3	95.4	95.4	95.4	95.7
≥ 800		74.0	81.2	85.8	90.9	92.3	94.4	95.0	95.1	95.3	95.3	95.3	95.4	95.4	95.4	95.7
≥ 700		74.0	81.2	85.8	91.2	92.5	95.0	95.7	95.8	95.9	95.9	95.9	96.1	96.1	96.1	96.3
≥ 600		74.0	81.2	85.8	91.3	92.8	95.3	95.9	96.2	96.3	96.3	96.3	96.5	96.5	96.5	96.7
≥ 500		74.1	81.4	86.0	91.6	93.2	95.7	96.5	96.7	96.9	96.9	96.9	97.0	97.0	97.0	97.2
≥ 400		74.1	81.4	86.0	91.7	93.3	95.8	96.6	97.0	97.1	97.1	97.1	97.2	97.2	97.2	97.5
≥ 300		74.1	81.4	86.0	91.7	93.3	95.8	96.7	97.1	97.4	97.5	97.5	98.2	98.3	98.6	98.8
≥ 200		74.1	81.4	86.0	91.7	93.3	95.8	96.7	97.2	97.5	97.6	97.6	98.6	98.8	99.2	99.5
≥ 100		74.1	81.4	86.0	91.7	93.3	95.8	96.7	97.2	97.5	97.6	97.6	98.8	99.2	99.7	100.0
≥ 0		74.1	81.4	86.0	91.7	93.3	95.8	96.7	97.2	97.5	97.6	97.6	98.8	99.2	99.7	100.0

TOTAL NUMBER OF OBSERVATIONS 762



GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

## CEILING VERSUS VISIBILITY

724835

MATHER AFB CA

73-81

FEB

STATION

STATION NAME

YEARS

MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)

1200-1400  
HOURS (L.S.T.)

CEILING (FEET)	VISIBILITY STATUTE MILES															
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1¼	≥ 1	≥ ¾	≥ ½	≥ ¼	≥ 1/16	≥ 1/8	≥ 0
NO CEILING		37.0	41.5	43.4	45.8	46.3	47.0	47.1	47.1	47.1	47.1	47.1	47.1	47.1	47.1	47.1
≥ 20000		44.5	47.9	52.8	55.5	56.2	56.8	57.0	57.0	57.0	57.0	57.0	57.0	57.0	57.0	57.0
≥ 18000		45.1	50.5	53.5	56.3	57.0	57.6	57.7	57.7	57.7	57.7	57.7	57.7	57.7	57.7	57.7
≥ 16000		45.3	50.7	53.7	56.4	57.1	57.7	57.9	57.9	57.9	57.9	57.9	57.9	57.9	57.9	57.9
≥ 14000		46.3	51.7	55.0	57.7	58.8	59.4	59.6	59.6	59.6	59.6	59.6	59.6	59.6	59.6	59.6
≥ 12000		49.2	55.1	58.5	61.3	62.5	63.1	63.3	63.3	63.3	63.3	63.3	63.3	63.3	63.3	63.3
≥ 10000		51.6	57.5	61.0	63.9	65.1	66.0	66.4	66.4	66.4	66.4	66.4	66.4	66.4	66.4	66.4
≥ 9000		52.2	58.1	61.7	64.6	65.7	66.7	67.1	67.1	67.1	67.1	67.1	67.1	67.1	67.1	67.1
≥ 8000		55.9	61.8	65.4	68.2	69.4	70.3	70.7	70.7	70.7	70.7	70.7	70.7	70.7	70.7	70.7
≥ 7000		56.4	62.5	66.0	68.9	70.2	71.1	71.5	71.5	71.5	71.5	71.5	71.5	71.5	71.5	71.5
≥ 6000		57.1	63.1	66.7	69.6	70.9	71.8	72.2	72.2	72.2	72.2	72.2	72.2	72.2	72.2	72.2
≥ 5000		59.3	65.5	69.0	71.9	73.2	74.1	74.7	74.7	74.7	74.7	74.7	74.7	74.7	74.7	74.7
≥ 4500		61.9	69.4	72.4	75.5	76.8	77.7	78.2	78.2	78.2	78.2	78.2	78.2	78.2	78.2	78.2
≥ 4000		66.0	72.8	77.3	80.7	82.2	83.1	83.6	83.6	83.6	83.6	83.6	83.6	83.6	83.6	83.6
≥ 3500		67.5	74.3	78.9	82.9	84.5	85.4	86.1	86.1	86.1	86.1	86.1	86.1	86.1	86.1	86.1
≥ 3000		71.5	78.5	83.1	87.1	88.7	89.6	90.3	90.3	90.3	90.3	90.3	90.3	90.3	90.3	90.3
≥ 2500		72.7	79.7	84.4	88.7	90.3	91.2	91.9	91.9	91.9	91.9	91.9	91.9	91.9	91.9	91.9
≥ 2000		75.5	82.7	87.5	92.4	94.0	94.9	95.5	95.5	95.5	95.5	95.5	95.5	95.5	95.5	95.5
≥ 1800		75.9	83.2	88.2	93.0	94.6	95.5	96.2	96.2	96.2	96.2	96.2	96.2	96.2	96.2	96.2
≥ 1500		76.4	84.1	89.1	94.1	96.2	97.1	97.8	97.8	97.8	97.8	97.8	97.8	97.8	97.8	97.8
≥ 1200		76.6	84.5	89.5	94.6	96.7	97.6	98.3	98.3	98.3	98.3	98.3	98.3	98.3	98.3	98.3
≥ 1000		76.6	84.6	89.6	94.8	96.9	97.9	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7
≥ 900		76.6	84.6	89.6	94.8	96.9	97.9	98.8	98.8	98.8	98.8	98.8	98.8	98.8	98.8	98.8
≥ 800		76.6	84.6	89.8	94.9	97.0	98.0	99.0	99.0	99.0	99.0	99.0	99.0	99.0	99.0	99.0
≥ 700		76.6	84.6	89.8	95.1	97.2	98.4	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3
≥ 600		76.6	84.6	89.9	95.4	97.6	98.8	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9
≥ 500		76.6	84.6	89.9	95.4	97.6	98.8	99.9	99.9	99.9	99.9	100.0	100.0	100.0	100.0	100.0
≥ 400		76.6	84.6	89.9	95.4	97.6	98.8	99.9	99.9	99.9	99.9	100.0	100.0	100.0	100.0	100.0
≥ 300		76.6	84.6	89.9	95.4	97.6	98.8	99.9	99.9	99.9	99.9	100.0	100.0	100.0	100.0	100.0
≥ 200		76.6	84.6	89.9	95.4	97.6	98.8	99.9	99.9	99.9	99.9	100.0	100.0	100.0	100.0	100.0
≥ 100		76.6	84.6	89.9	95.4	97.6	98.8	99.9	99.9	99.9	99.9	100.0	100.0	100.0	100.0	100.0
≥ 0		76.6	84.6	89.9	95.4	97.6	98.8	99.9	99.9	99.9	99.9	100.0	100.0	100.0	100.0	100.0

TOTAL NUMBER OF OBSERVATIONS 762

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

## CEILING VERSUS VISIBILITY

724835

MATHER AFB CA

73-81

FEB

STATION

STATION NAME

YEARS

MONTH

### PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

1500-1700

HOURS (L.A.T.)

CEILING (FEET)	VISIBILITY STATUTE MILES															
	≥10	≥6	≥5	≥4	≥3	≥2½	≥2	≥1½	≥1¼	≥1	≥¾	≥½	≥¼	≥5/16	≥¼	≥0
NO CEILING		40.4	43.7	44.9	47.5	48.0	48.3	48.3	48.3	48.3	48.3	48.3	48.3	48.3	48.3	48.3
≥20000		48.7	52.4	55.0	58.3	59.1	59.4	59.4	59.4	59.4	59.4	59.4	59.4	59.4	59.4	59.4
≥18000		50.1	53.8	56.4	59.7	60.6	61.0	61.0	61.0	61.0	61.0	61.0	61.0	61.0	61.0	61.0
≥16000		50.7	54.3	57.0	60.2	61.2	61.5	61.5	61.5	61.5	61.5	61.5	61.5	61.5	61.5	61.5
≥14000		53.1	57.0	59.7	63.1	64.0	64.4	64.4	64.4	64.4	64.4	64.4	64.4	64.4	64.4	64.4
≥12000		56.8	61.6	63.5	67.1	68.0	68.4	68.4	68.4	68.4	68.4	68.4	68.4	68.4	68.4	68.4
≥10000		60.0	63.8	66.8	70.7	71.7	72.3	72.6	72.6	72.7	72.8	72.8	72.8	72.8	72.8	72.8
≥9000		60.6	64.4	67.5	71.4	72.3	73.0	73.2	73.2	73.4	73.5	73.5	73.5	73.5	73.5	73.5
≥8000		63.0	66.8	69.9	74.1	75.1	75.7	76.0	76.0	76.1	76.2	76.2	76.2	76.2	76.2	76.2
≥7000		63.8	67.6	70.7	74.9	75.9	76.5	76.8	76.8	76.9	77.0	77.0	77.0	77.0	77.0	77.0
≥6000		65.6	69.4	72.6	77.2	78.1	78.7	79.0	79.0	79.1	79.3	79.3	79.3	79.3	79.3	79.3
≥5000		67.1	70.9	74.1	78.9	79.8	80.4	81.1	81.1	81.2	81.4	81.4	81.4	81.4	81.4	81.4
≥4500		70.2	74.0	77.3	82.0	82.9	83.6	84.3	84.3	84.4	84.5	84.5	84.5	84.5	84.5	84.5
≥4000		72.0	76.1	79.9	84.8	85.7	86.4	87.0	87.0	87.1	87.3	87.3	87.3	87.3	87.3	87.3
≥3500		73.2	77.7	81.5	86.6	87.7	88.3	89.0	89.0	89.1	89.2	89.2	89.2	89.2	89.2	89.2
≥3000		76.2	80.7	84.9	90.6	91.9	92.7	93.3	93.3	93.4	93.6	93.6	93.6	93.6	93.6	93.6
≥2500		77.2	81.9	86.1	91.7	93.0	93.8	94.6	94.6	94.8	94.9	94.9	94.9	94.9	94.9	94.9
≥2000		78.2	82.9	87.4	93.0	94.4	95.1	96.1	96.1	96.2	96.3	96.3	96.3	96.3	96.3	96.3
≥1800		78.3	83.1	87.5	93.2	94.5	95.3	96.2	96.2	96.3	96.5	96.5	96.5	96.5	96.5	96.5
≥1500		79.1	84.4	89.0	94.6	96.2	97.0	97.9	97.9	98.2	98.3	98.3	98.3	98.3	98.3	98.3
≥1200		79.4	84.6	89.2	95.0	96.6	97.4	98.4	98.4	98.7	98.8	98.8	98.8	98.8	98.8	98.8
≥1000		79.5	84.8	89.4	95.3	96.9	97.8	98.8	98.8	99.1	99.3	99.3	99.3	99.3	99.3	99.3
≥900		79.5	84.8	89.4	95.4	97.0	97.9	99.0	99.0	99.2	99.5	99.5	99.5	99.5	99.5	99.5
≥800		79.5	84.8	89.4	95.5	97.1	98.0	99.1	99.1	99.3	99.6	99.6	99.6	99.6	99.6	99.6
≥700		79.5	84.8	89.4	95.5	97.1	98.0	99.1	99.1	99.3	99.6	99.6	99.6	99.6	99.6	99.6
≥600		79.5	84.8	89.4	95.7	97.2	98.2	99.2	99.2	99.5	99.7	99.7	99.7	99.7	99.7	99.7
≥500		79.5	84.8	89.4	95.7	97.2	98.2	99.2	99.2	99.5	99.7	99.7	99.7	99.7	99.7	99.7
≥400		79.5	84.8	89.4	95.7	97.2	98.2	99.3	99.3	99.6	99.9	100.0	100.0	100.0	100.0	100.0
≥300		79.5	84.8	89.4	95.7	97.2	98.2	99.3	99.3	99.6	99.9	100.0	100.0	100.0	100.0	100.0
≥200		79.5	84.8	89.4	95.7	97.2	98.2	99.3	99.3	99.6	99.9	100.0	100.0	100.0	100.0	100.0
≥100		79.5	84.8	89.4	95.7	97.2	98.2	99.3	99.3	99.6	99.9	100.0	100.0	100.0	100.0	100.0
≥0		79.5	84.8	89.4	95.7	97.2	98.2	99.3	99.3	99.6	99.9	100.0	100.0	100.0	100.0	100.0

TOTAL NUMBER OF OBSERVATIONS 762

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

## CEILING VERSUS VISIBILITY

724835

MATHER AFB CA

73-81

FEB

STATION

STATION NAME

YEARS

MONTH

### PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

1800-2000  
HOURS (L.S.T.)

CEILING (FEET)	VISIBILITY STATUTE MILES															
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1¼	≥ 1	≥ ¾	≥ ½	≥ ¼	≥ 1/16	≥ 0	≥ 0
NO CEILING		45.8	47.4	50.7	52.6	52.9	53.4	53.4	53.4	53.5	53.5	53.5	53.5	53.5	53.5	53.5
≥ 20000		51.3	53.3	57.1	59.3	59.6	60.1	60.5	60.5	60.6	60.6	60.6	60.6	60.6	60.6	60.6
≥ 18000		52.6	54.6	58.4	60.6	60.9	61.5	61.9	61.9	62.1	62.1	62.1	62.1	62.1	62.1	62.1
≥ 16000		52.8	54.7	58.5	60.8	61.0	61.7	62.1	62.1	62.2	62.2	62.2	62.2	62.2	62.2	62.2
≥ 14000		55.1	57.1	61.0	63.4	63.6	64.7	65.1	65.1	65.2	65.2	65.2	65.2	65.2	65.2	65.2
≥ 12000		57.3	59.4	63.6	66.0	66.3	67.3	67.7	67.7	67.8	67.8	67.8	67.8	67.8	67.8	67.8
≥ 10000		62.9	65.2	69.6	72.2	72.4	73.6	74.1	74.1	74.3	74.4	74.4	74.4	74.5	74.5	74.5
≥ 9000		62.9	65.4	69.7	72.3	72.6	73.8	74.3	74.3	74.4	74.5	74.5	74.5	74.7	74.7	74.7
≥ 8000		64.6	67.1	71.4	74.0	74.3	75.5	76.0	76.0	76.1	76.2	76.2	76.4	76.4	76.4	76.4
≥ 7000		66.0	68.8	73.1	75.7	76.0	77.2	77.7	77.7	77.8	78.0	78.0	78.1	78.1	78.1	78.1
≥ 6000		67.1	69.8	74.4	77.4	77.7	78.9	79.4	79.4	79.5	79.7	79.7	79.8	79.8	79.8	79.8
≥ 5000		70.1	73.0	77.6	80.7	81.0	82.2	83.1	83.1	83.2	83.3	83.3	83.5	83.5	83.5	83.5
≥ 4500		72.4	75.3	79.9	83.1	83.3	84.5	85.4	85.4	85.6	85.7	85.7	85.8	85.8	85.8	85.8
≥ 4000		73.8	76.6	81.4	84.5	84.8	86.0	86.9	86.9	87.0	87.1	87.1	87.3	87.3	87.3	87.3
≥ 3500		75.3	78.2	82.9	86.1	86.4	87.5	88.5	88.5	88.6	88.7	88.7	88.8	88.8	88.8	88.8
≥ 3000		79.7	83.2	88.6	92.0	92.3	93.7	94.6	94.6	94.8	94.9	94.9	95.0	95.0	95.0	95.0
≥ 2500		80.3	84.0	89.5	92.9	93.2	94.6	95.5	95.5	95.7	95.8	95.8	95.9	95.9	95.9	95.9
≥ 2000		81.4	85.0	90.6	94.2	94.5	95.9	96.9	96.9	97.0	97.1	97.1	97.2	97.2	97.2	97.2
≥ 1800		81.5	85.2	90.7	94.4	94.6	96.1	97.0	97.0	97.1	97.2	97.2	97.4	97.4	97.4	97.4
≥ 1500		81.8	85.6	91.2	94.9	95.1	96.6	97.6	97.6	97.8	97.9	97.9	98.0	98.0	98.0	98.0
≥ 1200		81.9	86.7	91.6	95.3	95.5	97.0	98.2	98.2	98.3	98.4	98.4	98.6	98.6	98.6	98.6
≥ 1000		82.0	86.1	91.7	95.4	95.7	97.1	98.4	98.4	98.6	98.7	98.7	98.8	98.8	98.8	98.8
≥ 900		82.0	86.1	91.7	95.5	95.8	97.2	98.7	98.7	99.0	99.1	99.1	99.2	99.2	99.2	99.2
≥ 800		82.0	86.4	92.0	95.9	96.2	97.6	99.1	99.1	99.3	99.5	99.5	99.6	99.6	99.6	99.6
≥ 700		82.0	86.4	92.0	95.9	96.2	97.6	99.1	99.1	99.3	99.5	99.5	99.6	99.6	99.6	99.6
≥ 600		82.0	86.4	92.0	95.9	96.2	97.8	99.2	99.2	99.5	99.6	99.6	99.7	99.7	99.7	99.7
≥ 500		82.0	86.4	92.0	95.9	96.2	97.8	99.2	99.2	99.5	99.6	99.6	99.7	99.7	99.7	99.7
≥ 400		82.2	86.5	92.1	96.1	96.3	97.9	99.3	99.3	99.6	99.9	99.9	100.0	100.0	100.0	100.0
≥ 300		82.2	86.5	92.1	96.1	96.3	97.9	99.3	99.3	99.6	99.9	99.9	100.0	100.0	100.0	100.0
≥ 200		82.2	86.5	92.1	96.1	96.3	97.9	99.3	99.3	99.6	99.9	99.9	100.0	100.0	100.0	100.0
≥ 100		82.2	86.5	92.1	96.1	96.3	97.9	99.3	99.3	99.6	99.9	99.9	100.0	100.0	100.0	100.0
≥ 0		82.2	86.5	92.1	96.1	96.3	97.9	99.3	99.3	99.6	99.9	99.9	100.0	100.0	100.0	100.0

TOTAL NUMBER OF OBSERVATIONS 762

GLOBAL CLIMATOLOGY BRANCH  
USAF ETAC  
AIR WEATHER SERVICE/MAC

## CEILING VERSUS VISIBILITY

124835

MATHER AFB CA

73-81

FEB

STATION

STATION NAME

YEARS

MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)

2100-2300  
HOURS (L.S.T.)

CEILING (FEET)	VISIBILITY STATUTE MILES															
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1¼	≥ 1	≥ ¾	≥ ½	≥ ¼	≥ 3/16	≥ 1/8	≥ 0
NO CEILING		49.1	57.8	53.5	55.1	55.2	56.2	56.2	56.2	56.4	56.4	56.4	56.4	56.4	56.7	56.7
≥ 20000		53.8	55.6	59.2	60.8	60.9	61.8	61.9	61.9	62.2	62.2	62.2	62.2	62.2	62.5	62.5
≥ 18000		54.3	56.2	59.7	61.3	61.4	62.3	62.5	62.5	62.7	62.7	62.7	62.7	62.7	63.0	63.0
≥ 16000		54.7	56.6	60.1	61.7	61.8	62.7	62.9	62.9	63.1	63.1	63.1	63.1	63.1	63.4	63.4
≥ 14000		56.2	58.7	62.1	63.6	63.8	65.1	65.4	65.4	65.6	65.6	65.6	65.6	65.6	65.9	65.9
≥ 12000		58.3	60.1	64.6	66.1	66.4	67.7	68.0	68.0	68.2	68.4	68.4	68.4	68.4	68.6	68.8
≥ 10000		63.1	65.0	69.7	71.4	71.7	73.0	73.2	73.2	73.6	73.8	73.8	73.8	73.8	74.0	74.1
≥ 9000		63.5	65.4	70.1	71.8	72.0	73.4	73.6	73.6	74.0	74.1	74.1	74.1	74.1	74.4	74.5
≥ 8000		66.3	68.5	73.2	74.9	75.2	76.5	76.8	76.8	77.2	77.3	77.3	77.3	77.3	77.6	77.7
≥ 7000		66.5	69.2	73.9	75.6	75.9	77.2	77.4	77.4	77.8	78.0	78.0	78.0	78.0	78.2	78.3
≥ 6000		67.6	70.2	74.9	76.6	76.9	78.2	78.5	78.5	78.9	79.0	79.0	79.0	79.0	79.3	79.4
≥ 5000		71.8	74.4	79.1	81.0	81.4	82.7	82.9	82.9	83.5	83.6	83.6	83.6	83.6	83.9	84.0
≥ 4500		74.4	77.0	81.8	83.6	84.0	85.3	85.6	85.6	86.1	86.2	86.2	86.2	86.2	86.5	86.6
≥ 4000		76.1	73.7	83.5	85.3	85.7	87.0	87.3	87.3	87.8	87.9	87.9	87.9	87.9	88.2	88.3
≥ 3500		78.0	80.6	85.6	87.5	87.9	89.2	89.9	89.9	90.4	90.6	90.6	90.6	90.6	90.8	90.9
≥ 3000		79.9	82.8	88.5	90.8	91.2	92.5	93.2	93.2	93.7	93.8	93.8	93.8	93.8	94.1	94.2
≥ 2500		80.6	83.5	89.2	91.6	92.0	93.3	94.0	94.0	94.5	94.6	94.6	94.6	94.6	94.9	95.0
≥ 2000		81.1	84.1	89.9	92.3	92.7	94.0	94.6	94.6	95.1	95.3	95.3	95.3	95.3	95.5	95.7
≥ 1800		81.4	84.4	90.2	92.5	92.9	94.2	94.9	94.9	95.4	95.5	95.5	95.5	95.5	95.8	95.9
≥ 1500		82.4	85.7	91.6	94.1	94.5	95.9	96.7	96.7	97.2	97.4	97.4	97.4	97.4	97.6	97.8
≥ 1200		82.9	86.4	92.5	95.0	95.4	97.0	97.8	97.9	98.4	98.6	98.6	98.6	98.6	98.8	99.0
≥ 1000		83.1	86.5	92.7	95.1	95.5	97.1	97.9	98.0	98.6	98.7	98.7	98.7	98.7	99.0	99.1
≥ 900		83.1	86.5	92.8	95.3	95.7	97.2	98.2	98.3	98.8	99.0	99.0	99.0	99.0	99.2	99.3
≥ 800		83.2	86.6	92.9	95.4	95.8	97.4	98.3	98.4	99.0	99.1	99.1	99.1	99.1	99.3	99.5
≥ 700		83.2	86.6	92.9	95.4	95.8	97.4	98.3	98.4	99.0	99.1	99.1	99.1	99.1	99.3	99.5
≥ 600		83.2	86.6	92.9	95.4	95.8	97.4	98.3	98.4	99.0	99.1	99.1	99.1	99.1	99.3	99.5
≥ 500		83.2	86.6	92.9	95.4	95.8	97.4	98.3	98.4	99.0	99.1	99.1	99.1	99.1	99.3	99.5
≥ 400		83.3	86.7	93.0	95.5	95.9	97.5	98.4	98.6	99.1	99.2	99.2	99.2	99.2	99.5	99.6
≥ 300		83.6	87.0	93.3	95.8	96.2	97.8	98.7	98.8	99.3	99.5	99.5	99.5	99.5	99.7	99.9
≥ 200		83.6	87.0	93.3	95.8	96.2	97.8	98.7	98.8	99.3	99.5	99.5	99.5	99.5	99.7	99.9
≥ 100		83.6	87.0	93.3	95.8	96.2	97.8	98.7	98.8	99.3	99.5	99.5	99.5	99.5	99.7	99.9
≥ 0		83.6	87.0	93.3	95.8	96.2	97.8	98.7	98.8	99.3	99.5	99.5	99.5	99.5	99.9	100.0

TOTAL NUMBER OF OBSERVATIONS 762

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AT: WEATHER SERVICE/MAC

## CEILING VERSUS VISIBILITY

724835

MATHEP AFB CA

73-81

FEB

STATION

STATION NAME

YEARS

MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)

ALL

HOURS (L.S.T.)

CEILING (FEET)	VISIBILITY STATUTE MILES															
	≥10	≥6	≥5	≥4	≥3	≥2½	≥2	≥1½	≥1¼	≥1	¾	¾	¾	¾	¾	≥0
NO CEILING		42.9	45.6	47.4	49.6	49.9	50.4	50.6	50.6	50.7	50.7	50.7	50.7	50.7	50.8	50.9
≥ 20000		49.0	52.1	54.5	57.0	57.4	58.0	58.3	58.3	58.4	58.5	58.5	58.5	58.5	58.6	58.7
≥ 18000		49.7	52.8	55.2	57.7	58.1	58.8	59.0	59.1	59.2	59.2	59.2	59.3	59.3	59.4	59.5
≥ 16000		49.9	53.0	55.4	57.9	58.3	59.0	59.2	59.3	59.4	59.4	59.4	59.5	59.5	59.6	59.7
≥ 14000		51.3	54.4	57.0	59.5	60.0	60.8	61.1	61.1	61.2	61.3	61.3	61.3	61.3	61.4	61.6
≥ 12000		53.4	56.7	59.5	62.1	62.7	63.5	63.8	63.9	64.0	64.1	64.1	64.1	64.1	64.2	64.4
≥ 10000		57.2	61.5	63.5	66.3	67.0	67.9	68.3	68.4	68.5	68.6	68.6	68.7	68.7	68.8	69.0
≥ 9000		57.6	61.9	63.9	66.7	67.4	68.3	68.7	68.8	68.9	69.0	69.0	69.1	69.1	69.2	69.4
≥ 8000		60.6	64.1	67.1	70.0	70.7	71.6	72.0	72.1	72.2	72.3	72.3	72.4	72.4	72.5	72.6
≥ 7000		61.4	65.1	68.1	71.0	71.7	72.6	73.0	73.1	73.2	73.3	73.4	73.4	73.4	73.5	73.7
≥ 6000		62.5	66.4	69.4	72.4	73.1	74.0	74.4	74.5	74.6	74.7	74.7	74.8	74.8	74.9	75.1
≥ 5000		65.2	69.2	72.3	75.4	76.1	77.0	77.5	77.6	77.8	77.9	77.9	77.9	77.9	78.0	78.2
≥ 4500		68.0	72.1	75.4	78.6	79.3	80.3	80.8	80.8	81.0	81.1	81.2	81.2	81.2	81.3	81.5
≥ 4000		70.5	74.6	78.2	81.6	82.3	83.3	83.8	83.9	84.1	84.2	84.2	84.3	84.3	84.3	84.5
≥ 3500		72.0	76.4	80.1	83.6	84.4	85.3	85.9	86.0	86.2	86.3	86.3	86.4	86.4	86.5	86.6
≥ 3000		74.9	79.5	83.5	87.2	88.0	89.0	89.6	89.6	89.9	90.0	90.1	90.1	90.1	90.2	90.4
≥ 2500		75.8	80.7	84.8	88.5	89.3	90.3	91.0	91.1	91.3	91.5	91.5	91.6	91.6	91.6	91.8
≥ 2000		77.5	82.6	86.7	90.6	91.4	92.5	93.2	93.2	93.5	93.6	93.7	93.7	93.7	93.8	94.0
≥ 1800		77.8	82.9	87.0	91.0	91.8	92.9	93.6	93.6	93.9	94.0	94.0	94.1	94.1	94.2	94.4
≥ 1500		78.5	83.8	88.1	92.2	93.1	94.4	95.2	95.2	95.5	95.7	95.7	95.8	95.8	95.8	96.0
≥ 1200		78.8	84.2	88.7	92.8	93.8	95.0	95.9	96.0	96.3	96.4	96.4	96.5	96.5	96.6	96.8
≥ 1000		78.9	84.4	88.9	93.0	94.0	95.4	96.3	96.4	96.6	96.8	96.8	96.9	96.9	97.0	97.1
≥ 900		79.0	84.4	88.9	93.1	94.2	95.5	96.5	96.6	96.8	97.0	97.0	97.1	97.1	97.2	97.3
≥ 800		79.0	84.5	89.0	93.3	94.3	95.7	96.6	96.7	97.0	97.1	97.2	97.2	97.2	97.3	97.5
≥ 700		79.1	84.5	89.0	93.4	94.4	95.9	96.9	97.0	97.3	97.4	97.5	97.5	97.5	97.6	97.8
≥ 600		79.0	84.5	89.1	93.5	94.5	96.0	97.0	97.1	97.4	97.6	97.6	97.7	97.7	97.8	97.9
≥ 500		79.3	84.5	89.1	93.5	94.6	96.1	97.2	97.3	97.6	97.8	97.8	97.9	97.9	98.0	98.2
≥ 400		79.1	84.6	89.2	93.6	94.7	96.2	97.3	97.5	97.8	98.0	98.0	98.1	98.1	98.3	98.5
≥ 300		79.2	84.7	89.2	93.6	94.7	96.3	97.4	97.5	97.9	98.1	98.1	98.3	98.4	98.6	99.0
≥ 200		79.2	84.7	89.2	93.7	94.8	96.3	97.4	97.6	97.9	98.2	98.3	98.6	98.7	99.0	99.5
≥ 100		79.2	84.7	89.2	93.7	94.8	96.3	97.5	97.6	98.0	98.3	98.3	98.7	98.8	99.2	99.9
≥ 0		79.2	84.7	89.2	93.7	94.8	96.3	97.5	97.6	98.0	98.3	98.3	98.7	98.8	99.2	100.0

TOTAL NUMBER OF OBSERVATIONS 6095

USAF ETAC FORM 0-14-5 (OL A) PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE

GLOBAL CLIMATOLOGY BRANCH  
USAF ETAC  
AT WEATHER SERVICE/MAC

## CEILING VERSUS VISIBILITY

704835

MATHER AFB CA

73-81

MAR

STATION

STATION NAME

YEARS

MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)

1000-0200

HOURE (L.S.T.)

CEILING (FEET)	VISIBILITY STATUTE MILES															
	≥10	≥6	≥5	≥4	≥3	≥2½	≥2	≥1½	≥1¼	≥1	¾	¾	¾	≥5/16	¾	≥0
NO CEILING ≥ 20000		59.3 63.1	59.7 63.8	60.8 64.9	61.1 65.2	61.1 65.2	61.1 65.2	61.1 65.2	61.1 65.2	61.1 65.2	61.1 65.2	61.1 65.2	61.1 65.2	61.1 65.2	61.1 65.2	61.1 65.2
≥ 18000 N 18000		63.8 64.2	64.5 64.9	65.6 65.9	65.9 66.3	65.9 66.3	65.9 66.3	65.9 66.3	65.9 66.3	65.9 66.3	65.9 66.3	65.9 66.3	65.9 66.3	65.9 66.3	65.9 66.3	65.9 66.3
≥ 14000 N 14000		66.5 69.2	67.3 69.9	68.5 71.1	68.8 71.4	68.8 71.4	68.8 71.4	68.8 71.4	68.8 71.4	68.8 71.4	68.8 71.4	68.8 71.4	68.8 71.4	68.8 71.4	68.8 71.4	68.8 71.4
≥ 10000 N 10000		71.4 71.7	72.2 72.4	73.6 73.8	74.0 74.2	74.0 74.2	74.0 74.2	74.0 74.2	74.0 74.2	74.0 74.2	74.0 74.2	74.0 74.2	74.0 74.2	74.0 74.2	74.0 74.2	74.0 74.2
≥ 8000 N 8000		74.4 74.6	75.1 75.4	76.6 76.8	76.9 77.2	76.9 77.2	76.9 77.2	76.9 77.2	76.9 77.2	76.9 77.2	76.9 77.2	76.9 77.2	76.9 77.2	76.9 77.2	76.9 77.2	76.9 77.2
≥ 6000 N 6000		75.9 79.2	76.7 80.0	78.1 81.5	78.5 81.8	78.5 81.8	78.5 81.8	78.5 81.8	78.5 81.8	78.5 81.8	78.5 81.8	78.5 81.8	78.5 81.8	78.5 81.8	78.5 81.8	78.5 81.8
≥ 4500 N 4500		81.7 83.4	82.7 84.3	84.1 85.9	84.5 86.3	84.5 86.3	84.5 86.3	84.5 86.3	84.5 86.3	84.5 86.3	84.5 86.3	84.5 86.3	84.5 86.3	84.5 86.3	84.5 86.3	84.5 86.3
≥ 4000 N 4000		83.4 84.3	84.3 85.9	85.9 86.3	86.3 86.3	86.3 86.3	86.3 86.3	86.3 86.3	86.3 86.3	86.3 86.3	86.3 86.3	86.3 86.3	86.3 86.3	86.3 86.3	86.3 86.3	86.3 86.3
≥ 3500 N 3500		84.3 88.3	85.4 89.8	87.0 91.5	87.3 92.0	87.3 92.0	87.3 92.0	87.3 92.0	87.3 92.0	87.3 92.0	87.3 92.0	87.3 92.0	87.3 92.0	87.3 92.0	87.3 92.0	87.3 92.0
≥ 3000 N 3000		88.3 89.7	89.8 91.5	91.5 93.3	92.0 93.9	92.0 93.9	92.0 93.9	92.0 93.9	92.0 93.9	92.0 93.9	92.0 93.9	92.0 93.9	92.0 93.9	92.0 93.9	92.0 93.9	92.0 93.9
≥ 2500 N 2500		89.7 90.7	91.5 92.5	93.3 94.3	93.9 94.9	93.9 94.9	93.9 94.9	93.9 94.9	93.9 94.9	93.9 94.9	93.9 94.9	93.9 94.9	93.9 94.9	93.9 94.9	93.9 94.9	93.9 94.9
≥ 2000 N 2000		90.7 92.0	92.5 93.9	94.3 95.8	94.9 96.4	94.9 96.4	94.9 96.4	94.9 96.4	94.9 96.4	94.9 96.4	94.9 96.4	94.9 96.4	94.9 96.4	94.9 96.4	94.9 96.4	94.9 96.4
≥ 1800 N 1800		92.0 93.0	93.9 95.0	95.8 96.9	96.4 97.7	96.4 97.8	96.4 97.8	96.4 97.8	96.4 97.8	96.4 97.8	96.4 97.8	96.4 97.8	96.4 97.8	96.4 97.8	96.4 97.8	96.4 97.8
≥ 1500 N 1500		93.0 93.1	95.0 95.1	96.9 97.0	97.7 97.8	97.8 98.1	97.8 98.3	97.8 98.3	97.8 98.3	97.8 98.3	97.8 98.3	97.8 98.3	97.8 98.3	97.8 98.3	97.8 98.3	97.8 98.3
≥ 1200 N 1200		93.1 93.2	95.1 95.2	97.0 97.1	97.8 98.0	98.1 98.2	98.3 98.4	98.3 98.4	98.3 98.4	98.3 98.4	98.3 98.4	98.3 98.4	98.3 98.4	98.3 98.4	98.3 98.4	98.3 98.4
≥ 900 N 900		93.2 93.7	95.2 95.7	97.1 97.6	98.0 98.4	98.2 98.7	98.4 98.9	98.4 98.9	98.4 98.9	98.4 98.9	98.4 98.9	98.4 98.9	98.4 98.9	98.4 98.9	98.4 98.9	98.4 98.9
≥ 800 N 800		93.7 93.8	95.7 95.8	97.6 97.7	98.4 98.6	98.7 98.8	98.9 99.0	98.9 99.0	98.9 99.0	98.9 99.0	98.9 99.0	98.9 99.0	98.9 99.0	98.9 99.0	98.9 99.0	98.9 99.0
≥ 700 N 700		93.8 94.3	95.8 96.1	97.7 98.0	98.6 98.9	98.8 99.2	99.0 99.4	99.0 99.4	99.0 99.4	99.0 99.4	99.0 99.4	99.0 99.4	99.0 99.4	99.0 99.4	99.0 99.4	99.0 99.4
≥ 600 N 600		94.3 94.0	96.1 96.1	98.0 98.0	98.9 98.9	99.2 99.2	99.4 99.4	99.4 99.4	99.4 99.4	99.4 99.4	99.4 99.4	99.4 99.4	99.4 99.4	99.4 99.4	99.4 99.4	99.4 99.4
≥ 500 N 500		94.0 94.0	96.1 96.1	98.1 98.1	99.0 99.0	99.3 99.3	99.5 99.5	99.5 99.5	99.5 99.5	99.5 99.5	99.5 99.5	99.5 99.5	99.5 99.5	99.5 99.5	99.5 99.5	99.5 99.5
≥ 400 N 400		94.0 94.0	96.1 96.1	98.1 98.1	99.0 99.0	99.3 99.3	99.5 99.5	99.5 99.5	99.5 99.5	99.5 99.5	99.5 99.5	99.5 99.5	99.5 99.5	99.5 99.5	99.5 99.5	99.5 99.5
≥ 300 N 300		94.0 94.0	96.1 96.1	98.1 98.1	99.0 99.0	99.3 99.3	99.5 99.5	99.5 99.5	99.5 99.5	99.5 99.5	99.5 99.5	99.5 99.5	99.5 99.5	99.5 99.5	99.5 99.5	99.5 99.5
≥ 200 N 200		94.0 94.0	96.1 96.1	98.1 98.1	99.0 99.0	99.3 99.3	99.5 99.5	99.5 99.5	99.5 99.5	99.5 99.5	99.5 99.5	99.5 99.5	99.5 99.5	99.5 99.5	99.5 99.5	99.5 99.5
≥ 100 N 100		94.0 94.0	96.1 96.1	98.1 98.1	99.0 99.0	99.3 99.3	99.5 99.5	99.5 99.5	99.5 99.5	99.5 99.5	99.5 99.5	99.5 99.5	99.5 99.5	99.5 99.5	99.5 99.5	99.5 99.5
≥ 0 N 0		94.0 94.0	96.1 96.1	98.1 98.1	99.0 99.0	99.3 99.3	99.5 99.5	99.5 99.5	99.5 99.5	99.5 99.5	99.5 99.5	99.5 99.5	99.5 99.5	99.5 99.5	99.5 99.5	99.5 99.5

TOTAL NUMBER OF OBSERVATIONS 837

CLIMATE CLIMATOLOGY BRANCH  
USAF ETAC  
AIR WEATHER SERVICE/MAC

## CEILING VERSUS VISIBILITY

72835 MATHER AFB CA

73-81

MAR

STATION

STATION NAME

YEARS

MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)

3300-0500  
HOURS (L.E.T.)

CEILING (FEET)	VISIBILITY - STATUTE MILES															
	≥10	≥6	≥5	≥4	≥3	≥2½	≥2	≥1½	≥1¼	≥1	¾	¾	¾	¾	≥5/16	≥¼
NO CEILING		55.3	55.4	57.5	57.9	57.9	57.9	57.9	57.9	57.9	57.9	57.9	57.9	57.9	57.9	57.9
≥ 20000		59.6	61.2	62.2	62.8	62.8	62.8	62.8	62.8	62.8	62.8	62.8	62.8	62.8	62.8	62.8
≥ 18000		61.0	61.5	62.6	63.2	63.2	63.2	63.2	63.2	63.2	63.2	63.2	63.2	63.2	63.2	63.2
≥ 16000		61.1	61.6	62.7	63.3	63.3	63.3	63.3	63.3	63.3	63.3	63.3	63.3	63.3	63.3	63.3
≥ 14000		61.8	63.3	64.4	65.0	65.0	65.0	65.0	65.0	65.0	65.0	65.0	65.0	65.0	65.0	65.0
≥ 12000		64.6	66.3	67.4	68.3	68.3	68.3	68.3	68.3	68.3	68.3	68.3	68.3	68.3	68.3	68.3
≥ 10000		68.6	70.5	71.6	72.4	72.4	72.4	72.4	72.4	72.4	72.4	72.4	72.4	72.4	72.4	72.4
≥ 9000		68.6	70.5	71.7	72.5	72.5	72.5	72.5	72.5	72.5	72.5	72.5	72.5	72.5	72.5	72.5
≥ 8000		70.6	72.3	73.5	74.3	74.3	74.3	74.3	74.3	74.3	74.3	74.3	74.3	74.3	74.3	74.3
≥ 7000		71.1	72.8	74.0	74.8	74.8	74.8	74.8	74.8	74.8	74.8	74.8	74.8	74.8	74.8	74.8
≥ 6000		72.3	74.0	75.1	76.0	76.0	76.0	76.0	76.0	76.0	76.0	76.0	76.0	76.0	76.0	76.0
≥ 5000		75.1	77.1	78.3	79.1	79.1	79.1	79.1	79.1	79.1	79.1	79.1	79.1	79.1	79.1	79.1
≥ 4500		77.4	79.3	80.5	81.6	81.7	81.7	81.7	81.7	81.7	81.7	81.7	81.7	81.7	81.7	81.7
≥ 4000		78.9	80.8	82.1	83.2	83.3	83.3	83.3	83.3	83.3	83.3	83.3	83.3	83.3	83.3	83.3
≥ 3500		80.8	82.7	84.0	85.1	85.2	85.2	85.2	85.2	85.2	85.2	85.2	85.2	85.2	85.2	85.2
≥ 3000		84.8	87.0	88.3	89.4	89.5	89.5	89.6	89.6	89.6	89.6	89.6	89.6	89.6	89.6	89.6
≥ 2500		85.5	87.9	89.5	90.6	90.7	90.7	90.8	90.8	90.8	90.8	90.8	90.8	90.8	90.8	90.8
≥ 2000		87.5	90.0	91.8	92.8	93.0	93.0	93.1	93.1	93.1	93.1	93.1	93.1	93.1	93.1	93.1
≥ 1800		87.9	91.6	92.5	93.5	93.7	93.7	93.8	93.8	93.8	93.8	93.8	93.8	93.8	93.8	93.8
≥ 1500		89.4	92.2	94.4	95.6	95.7	95.7	95.8	95.8	95.8	95.8	95.8	95.8	95.8	95.8	95.8
≥ 1200		90.3	93.3	95.6	96.9	97.0	97.0	97.1	97.1	97.1	97.1	97.1	97.1	97.1	97.1	97.1
≥ 1000		90.4	93.4	95.7	97.0	97.1	97.1	97.3	97.3	97.3	97.3	97.3	97.3	97.3	97.3	97.3
≥ 900		90.7	93.7	95.9	97.3	97.4	97.4	97.5	97.5	97.5	97.5	97.5	97.5	97.5	97.5	97.5
≥ 800		90.7	93.7	95.9	97.3	97.5	97.5	97.6	97.6	97.6	97.6	97.6	97.6	97.6	97.6	97.6
≥ 700		91.0	94.0	96.3	97.6	97.8	97.8	98.0	98.0	98.0	98.0	98.0	98.0	98.0	98.0	98.0
≥ 600		91.2	94.1	96.5	97.8	98.1	98.1	98.2	98.2	98.2	98.2	98.2	98.2	98.2	98.2	98.2
≥ 500		91.5	94.5	97.1	98.4	98.7	98.7	98.8	98.8	98.8	98.8	98.8	98.8	98.8	98.8	98.8
≥ 400		91.6	94.6	97.3	98.6	98.8	98.8	98.9	98.9	98.9	98.9	98.9	98.9	98.9	98.9	98.9
≥ 300		91.6	94.6	97.4	98.8	99.0	99.0	99.2	99.2	99.2	99.2	99.2	99.2	99.3	99.3	99.4
≥ 200		91.6	94.6	97.4	98.8	99.0	99.0	99.3	99.3	99.3	99.3	99.3	99.3	99.4	99.4	99.6
≥ 100		91.6	94.6	97.4	98.8	99.0	99.0	99.3	99.3	99.3	99.3	99.3	99.3	99.4	99.4	100.0
≥ 0		91.6	94.6	97.4	98.8	99.0	99.0	99.3	99.3	99.3	99.3	99.3	99.3	99.4	99.4	100.0

TOTAL NUMBER OF OBSERVATIONS 837

CLIMATE CLIMATOLOGY BRANCH  
 AFETAC  
 AIR WEATHER SERVICE/MAC

# CEILING VERSUS VISIBILITY

72835 14TH AFB CA

73-81

MAR

STATION

STATION NAME

YEARS

MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE  
 (FROM HOURLY OBSERVATIONS)

7600-0800  
 HOURS (L.S.T.)

CEILING (FEET)	VISIBILITY - STATUTE MILES															
	≥10	≥6	≥5	≥4	≥3	≥2½	≥2	≥1½	≥1¼	≥1	¾	¾	¾	≥5/16	¾	≥0
NO CEILING		47.3	49.7	51.7	52.8	52.8	53.0	53.0	53.0	53.0	53.0	53.0	53.0	53.0	53.2	53.3
≥ 20000		52.6	55.3	57.5	58.8	58.8	59.0	59.0	59.0	59.0	59.0	59.0	59.0	59.0	59.1	59.3
≥ 18000		53.2	55.9	58.1	59.4	59.4	59.6	59.6	59.6	59.6	59.6	59.6	59.6	59.6	59.7	59.9
≥ 16000		53.4	56.2	58.3	59.6	59.6	59.9	59.9	59.9	59.9	59.9	59.9	59.9	59.9	60.0	60.1
≥ 14000		55.3	58.1	60.2	61.5	61.5	61.8	61.8	61.8	61.8	61.8	61.8	61.8	61.8	61.9	62.0
≥ 12000		57.1	59.9	62.0	63.3	63.3	63.6	63.6	63.6	63.6	63.6	63.6	63.6	63.6	63.7	63.8
≥ 10000		61.6	64.4	66.8	68.3	68.3	68.6	68.7	68.7	68.7	68.7	68.7	68.7	68.7	68.8	68.9
≥ 9000		61.8	64.5	66.9	68.6	68.6	68.8	68.9	68.9	68.9	68.9	68.9	68.9	68.9	69.1	69.2
≥ 8000		65.1	68.0	70.5	72.3	72.4	72.8	72.9	72.9	72.9	72.9	72.9	72.9	72.9	73.0	73.1
≥ 7000		66.1	69.1	71.7	73.5	73.6	74.0	74.1	74.1	74.1	74.1	74.1	74.1	74.1	74.2	74.3
≥ 6000		67.3	70.3	73.2	75.0	75.3	75.6	75.7	75.7	75.7	75.7	75.7	75.7	75.7	75.9	76.0
≥ 5000		69.5	72.6	75.6	77.4	77.9	78.3	78.4	78.4	78.4	78.4	78.4	78.4	78.4	78.5	78.6
≥ 4500		71.7	75.1	78.4	80.3	80.8	81.1	81.2	81.2	81.2	81.2	81.2	81.2	81.2	81.4	81.5
≥ 4000		73.6	77.2	80.4	82.3	82.8	83.2	83.3	83.3	83.3	83.3	83.3	83.3	83.4	83.5	83.6
≥ 3500		74.9	78.9	82.2	84.1	84.8	85.2	85.3	85.3	85.3	85.3	85.3	85.3	85.4	85.5	85.7
≥ 3000		77.4	82.1	85.5	87.7	88.4	88.8	88.9	88.9	88.9	88.9	88.9	88.9	89.0	89.1	89.2
≥ 2500		78.4	83.0	86.5	88.6	89.5	89.8	90.0	90.0	90.0	90.0	90.0	90.0	90.1	90.2	90.3
≥ 2000		79.8	84.6	88.1	91.3	91.2	91.5	91.6	91.6	91.6	91.6	91.6	91.6	91.8	91.9	92.0
≥ 1800		79.8	84.6	88.2	91.4	91.3	91.6	91.8	91.8	91.8	91.8	91.8	91.8	91.9	92.0	92.1
≥ 1500		81.1	86.0	90.0	92.4	93.3	93.7	93.8	93.8	93.9	93.9	93.9	93.9	94.0	94.1	94.3
≥ 1200		81.6	86.6	90.9	93.3	94.3	94.7	94.9	94.9	95.0	95.0	95.0	95.0	95.1	95.2	95.3
≥ 1000		81.6	86.7	91.2	93.5	94.5	95.1	95.2	95.2	95.3	95.3	95.3	95.3	95.5	95.6	95.7
≥ 900		81.7	87.0	91.4	93.8	94.7	95.3	95.5	95.5	95.6	95.6	95.6	95.6	95.7	95.8	95.9
≥ 800		81.8	87.1	91.6	94.1	95.1	95.7	95.8	95.8	95.9	96.1	96.1	96.2	96.2	96.3	96.5
≥ 700		82.1	87.2	91.9	94.7	95.7	96.3	96.4	96.4	96.5	96.7	96.7	96.8	96.8	96.9	97.1
≥ 600		82.1	87.3	92.0	94.9	95.8	96.4	96.5	96.5	96.7	96.8	96.8	96.9	96.9	97.0	97.3
≥ 500		82.3	87.6	92.4	95.6	96.7	97.4	97.5	97.5	97.6	97.7	97.7	97.8	97.8	98.0	98.2
≥ 400		82.3	87.6	92.4	95.8	97.1	97.8	98.1	98.1	98.2	98.3	98.3	98.4	98.4	98.7	98.9
≥ 300		82.3	87.7	92.5	96.1	97.4	98.2	98.4	98.4	98.7	98.8	98.8	98.9	99.0	99.4	99.6
≥ 200		82.3	87.7	92.5	96.1	97.4	98.2	98.4	98.4	98.7	98.8	98.8	98.9	99.0	99.4	100.0
≥ 100		82.3	87.7	92.5	96.1	97.4	98.2	98.4	98.4	98.7	98.8	98.8	98.9	99.0	99.4	100.0
≥ 0		82.3	87.7	92.5	96.1	97.4	98.2	98.4	98.4	98.7	98.8	98.8	98.9	99.0	99.4	100.0

TOTAL NUMBER OF OBSERVATIONS 837



CLIMATOLGY BRANCH  
 WEAFETAC  
 WEATHER SERVICE/MAC

# CEILING VERSUS VISIBILITY

120935  
 STATION

MATHER AFB CA  
 STATION NAME

73-81  
 YEARS

MAR  
 MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE  
 (FROM HOURLY OBSERVATIONS)

0900-1100  
 HOURS (L.S.T.)

CEILING (FEET)	VISIBILITY STATUTE MILES															
	≥10	≥6	≥5	≥4	≥3	≥2½	≥2	≥1½	≥1¼	≥1	¾	¾	¾	¾	≥3/16	≥¼
NO CEILING		48.5	51.2	51.0	51.5	51.5	51.5	51.6	51.6	51.6	51.6	51.6	51.6	51.6	51.6	51.6
≥ 20000		58.2	58.1	58.9	59.4	59.4	59.4	59.5	59.5	59.5	59.5	59.5	59.5	59.5	59.5	59.5
≥ 18000		56.3	58.2	59.0	59.5	59.5	59.5	59.6	59.6	59.6	59.6	59.6	59.6	59.6	59.6	59.6
≥ 16000		56.9	58.8	59.6	61.1	61.1	61.1	60.2	60.2	60.2	60.2	60.2	60.2	60.2	60.2	60.2
≥ 14000		57.8	61.1	61.9	61.4	61.4	61.4	61.5	61.5	61.5	61.5	61.5	61.5	61.5	61.5	61.5
≥ 12000		59.6	62.7	63.0	63.4	63.4	63.4	63.6	63.6	63.6	63.6	63.6	63.6	63.6	63.6	63.6
≥ 10000		62.1	64.4	65.7	66.2	66.2	66.2	66.3	66.3	66.3	66.3	66.3	66.3	66.3	66.3	66.3
≥ 9000		62.4	65.1	66.1	66.5	66.5	66.5	66.7	66.7	66.7	66.7	66.7	66.7	66.7	66.7	66.7
≥ 8000		65.4	68.2	69.4	70.3	70.3	70.3	70.4	70.4	70.4	70.4	70.4	70.4	70.4	70.4	70.4
≥ 7000		66.5	69.4	70.7	71.6	71.6	71.6	71.7	71.7	71.7	71.7	71.7	71.7	71.7	71.7	71.7
≥ 6000		68.1	71.4	73.0	74.0	74.0	74.0	74.1	74.1	74.1	74.1	74.1	74.1	74.1	74.1	74.1
≥ 5000		69.3	73.0	74.6	75.5	75.5	75.5	75.6	75.6	75.6	75.6	75.6	75.6	75.6	75.6	75.6
≥ 4500		71.4	75.4	76.9	77.9	77.9	78.0	78.1	78.1	78.1	78.1	78.1	78.1	78.1	78.1	78.1
≥ 4000		73.2	77.4	79.0	80.0	80.2	80.3	80.4	80.4	80.4	80.4	80.4	80.4	80.4	80.4	80.4
≥ 3500		74.6	78.7	81.3	81.4	81.5	81.6	81.8	81.8	81.8	81.8	81.8	81.8	81.8	81.8	81.8
≥ 3000		76.6	81.4	83.0	84.1	84.2	84.3	84.6	84.6	84.6	84.6	84.6	84.6	84.6	84.6	84.6
≥ 2500		77.1	82.1	83.6	84.7	84.8	84.9	85.2	85.2	85.2	85.2	85.2	85.2	85.2	85.2	85.2
≥ 2000		81.0	85.1	86.7	87.9	88.1	88.2	88.4	88.4	88.4	88.4	88.4	88.4	88.4	88.4	88.4
≥ 1800		80.2	85.2	87.0	88.3	88.4	88.5	88.8	88.8	88.8	88.8	88.8	88.8	88.8	88.8	88.8
≥ 1500		82.0	87.9	90.3	92.1	92.4	92.6	92.8	93.0	93.0	93.0	93.0	93.0	93.0	93.0	93.0
≥ 1200		83.2	89.5	92.1	94.4	94.6	95.0	95.2	95.3	95.3	95.3	95.3	95.3	95.3	95.3	95.3
≥ 1000		83.8	90.2	92.8	95.1	95.5	95.8	96.1	96.2	96.2	96.2	96.2	96.2	96.2	96.2	96.2
≥ 900		84.5	91.0	93.8	96.3	96.7	97.0	97.3	97.4	97.4	97.4	97.4	97.4	97.4	97.4	97.4
≥ 800		84.8	91.4	94.4	97.1	97.5	97.8	98.2	98.3	98.3	98.3	98.3	98.3	98.3	98.3	98.3
≥ 700		84.8	91.4	94.4	97.1	97.5	97.8	98.2	98.3	98.3	98.3	98.3	98.3	98.3	98.3	98.3
≥ 600		84.9	91.5	94.5	97.5	97.8	98.2	98.6	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7
≥ 500		85.1	91.6	94.7	98.2	98.6	98.9	99.4	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5
≥ 400		85.1	91.6	94.7	98.3	98.7	99.0	99.6	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8
≥ 300		85.1	91.6	94.7	98.3	98.7	99.0	99.8	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9
≥ 200		85.1	91.6	94.7	98.3	98.7	99.0	99.8	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9
≥ 100		85.1	91.6	94.7	98.3	98.7	99.0	99.8	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9
≥ 0		85.1	91.6	94.7	98.3	98.7	99.0	99.8	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9

TOTAL NUMBER OF OBSERVATIONS 837

GENERAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

# CEILING VERSUS VISIBILITY

724835

MATHER AFB CA

73-81

MAR

STATION

STATION NAME

YEARS

MONTH

## PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

0900-1100  
HOURS (L.S.T.)

CEILING (FEET)	VISIBILITY STATUTE MILES															
	≥10	≥6	≥5	≥4	≥3	≥2½	≥2	≥1½	≥1¼	≥1	≥¾	≥½	≥¼	≥1/16	≥1/8	≥0
NO CEILING		48.5	51.2	51.0	51.5	51.5	51.5	51.6	51.6	51.6	51.6	51.6	51.6	51.6	51.6	51.6
≥ 20000		53.2	58.1	58.9	59.4	59.4	59.4	59.5	59.5	59.5	59.5	59.5	59.5	59.5	59.5	59.5
≥ 18000		56.3	58.2	59.0	59.5	59.5	59.5	59.6	59.6	59.6	59.6	59.6	59.6	59.6	59.6	59.6
≥ 16000		56.7	58.6	59.6	61.1	61.1	60.1	60.2	60.2	60.2	60.2	60.2	60.2	60.2	60.2	60.2
≥ 14000		57.8	61.1	61.9	61.4	61.4	61.4	61.5	61.5	61.5	61.5	61.5	61.5	61.5	61.5	61.5
≥ 12000		59.6	62.3	63.0	63.4	63.4	63.4	63.6	63.6	63.6	63.6	63.6	63.6	63.6	63.6	63.6
≥ 10000		62.1	64.8	65.7	66.2	66.2	66.2	66.3	66.3	66.3	66.3	66.3	66.3	66.3	66.3	66.3
≥ 9000		62.4	65.1	66.1	66.5	66.5	66.5	66.7	66.7	66.7	66.7	66.7	66.7	66.7	66.7	66.7
≥ 8000		65.4	68.2	69.4	71.3	70.3	70.3	70.4	70.4	70.4	70.4	70.4	70.4	70.4	70.4	70.4
≥ 7000		66.5	69.4	70.7	71.6	71.6	71.6	71.7	71.7	71.7	71.7	71.7	71.7	71.7	71.7	71.7
≥ 6000		68.1	71.4	73.0	74.0	74.0	74.0	74.1	74.1	74.1	74.1	74.1	74.1	74.1	74.1	74.1
≥ 5000		69.3	73.0	74.6	75.5	75.5	75.5	75.6	75.6	75.6	75.6	75.6	75.6	75.6	75.6	75.6
≥ 4500		71.4	75.4	76.9	77.9	77.9	78.0	78.1	78.1	78.1	78.1	78.1	78.1	78.1	78.1	78.1
≥ 4000		73.2	77.4	79.0	80.0	80.2	80.3	80.4	80.4	80.4	80.4	80.4	80.4	80.4	80.4	80.4
≥ 3500		74.6	78.7	81.3	81.4	81.5	81.6	81.8	81.8	81.8	81.8	81.8	81.8	81.8	81.8	81.8
≥ 3000		76.6	81.4	83.0	84.1	84.2	84.3	84.6	84.6	84.6	84.6	84.6	84.6	84.6	84.6	84.6
≥ 2500		77.1	82.1	83.6	84.7	84.8	84.9	85.2	85.2	85.2	85.2	85.2	85.2	85.2	85.2	85.2
≥ 2000		81.0	85.1	86.7	87.9	88.1	88.2	88.4	88.4	88.4	88.4	88.4	88.4	88.4	88.4	88.4
≥ 1800		80.2	85.2	87.0	88.3	88.4	88.5	88.8	88.8	88.8	88.8	88.8	88.8	88.8	88.8	88.8
≥ 1500		82.0	87.9	90.3	92.1	92.4	92.6	92.8	93.0	93.0	93.0	93.0	93.0	93.0	93.0	93.0
≥ 1200		93.2	89.5	92.1	94.4	94.6	95.0	95.2	95.3	95.3	95.3	95.3	95.3	95.3	95.3	95.3
≥ 1000		93.8	90.2	92.8	95.1	95.5	95.9	96.1	96.2	96.2	96.2	96.2	96.2	96.2	96.2	96.2
≥ 900		94.5	91.0	93.8	96.3	96.7	97.0	97.3	97.4	97.4	97.4	97.4	97.4	97.4	97.4	97.4
≥ 800		94.8	91.4	94.4	97.1	97.5	97.8	98.2	98.3	98.3	98.3	98.3	98.3	98.3	98.3	98.3
≥ 700		94.8	91.4	94.4	97.1	97.5	97.8	98.2	98.3	98.3	98.3	98.3	98.3	98.3	98.3	98.3
≥ 600		94.9	91.5	94.5	97.5	97.8	98.2	98.6	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7
≥ 500		95.1	91.6	94.7	98.2	98.6	98.9	99.4	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5
≥ 400		95.1	91.6	94.7	98.3	98.7	99.0	99.6	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8
≥ 300		95.1	91.6	94.7	98.3	98.7	99.0	99.8	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9
≥ 200		95.1	91.6	94.7	98.3	98.7	99.0	99.8	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9
≥ 100		95.1	91.6	94.7	98.3	98.7	99.0	99.8	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9
≥ 0		95.1	91.6	94.7	98.3	98.7	99.0	99.8	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9

TOTAL NUMBER OF OBSERVATIONS 837

CLIMATE CLIMATOLOGY BRANCH  
AFETAC  
AF WEATHER SERVICE/MAC

## CEILING VERSUS VISIBILITY

124835  
STATION

MATHER AFB CA  
STATION NAME

73-81  
YEARS

MAR  
MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)

1200-1400  
HOURS (L.S.T.)

CEILING (FEET)	VISIBILITY STATUTE MILES															
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1¼	≥ 1	≥ ¾	≥ ½	≥ ¼	≥ 1/10	≥ 1/8	≥ 0
NO CEILING	57.3	52.4	53.3	53.5	53.5	53.5	53.5	53.5	53.5	53.5	53.5	53.5	53.5	53.5	53.5	53.5
≥ 20000	57.6	61.3	61.3	61.6	61.6	61.6	61.6	61.6	61.6	61.6	61.6	61.6	61.6	61.6	61.6	61.6
≥ 18000	57.8	61.8	61.8	62.1	62.1	62.1	62.1	62.1	62.1	62.1	62.1	62.1	62.1	62.1	62.1	62.1
≥ 16000	57.8	61.8	61.8	62.1	62.1	62.1	62.1	62.1	62.1	62.1	62.1	62.1	62.1	62.1	62.1	62.1
≥ 14000	58.5	61.8	62.8	63.4	63.4	63.4	63.4	63.4	63.4	63.4	63.4	63.4	63.4	63.4	63.4	63.4
≥ 12000	60.7	63.9	65.0	65.6	65.6	65.6	65.6	65.6	65.6	65.6	65.6	65.6	65.6	65.6	65.6	65.6
≥ 10000	62.3	66.2	67.3	68.0	68.0	68.0	68.0	68.0	68.0	68.0	68.0	68.0	68.0	68.0	68.0	68.0
≥ 9000	63.1	66.4	67.5	68.3	68.3	68.3	68.3	68.3	68.3	68.3	68.3	68.3	68.3	68.3	68.3	68.3
≥ 8000	67.0	70.5	71.7	72.5	72.5	72.5	72.5	72.5	72.5	72.5	72.5	72.5	72.5	72.5	72.5	72.5
≥ 7000	63.5	72.0	73.5	74.3	74.3	74.3	74.3	74.3	74.3	74.3	74.3	74.3	74.3	74.3	74.3	74.3
≥ 6000	69.7	73.4	75.0	76.0	76.0	76.0	76.0	76.0	76.0	76.0	76.0	76.0	76.0	76.0	76.0	76.0
≥ 5000	71.4	75.3	76.9	78.1	78.1	78.1	78.1	78.1	78.1	78.1	78.1	78.1	78.1	78.1	78.1	78.1
≥ 4500	73.1	77.3	79.1	80.3	80.3	80.3	80.3	80.3	80.3	80.3	80.3	80.3	80.3	80.3	80.3	80.3
≥ 4000	76.3	81.6	82.4	83.6	83.6	83.6	83.6	83.6	83.6	83.6	83.6	83.6	83.6	83.6	83.6	83.6
≥ 3500	77.4	81.7	83.6	84.8	84.8	84.8	84.8	84.8	84.8	84.8	84.8	84.8	84.8	84.8	84.8	84.8
≥ 3000	81.7	86.1	88.2	89.6	89.6	89.6	89.6	89.6	89.6	89.6	89.6	89.6	89.6	89.6	89.6	89.6
≥ 2500	83.4	87.8	89.8	91.4	91.4	91.6	91.6	91.6	91.6	91.6	91.6	91.6	91.6	91.6	91.6	91.6
≥ 2000	85.8	91.8	93.0	94.5	94.5	94.7	94.7	94.7	94.7	94.7	94.7	94.7	94.7	94.7	94.7	94.7
≥ 1800	86.3	91.3	93.4	95.0	95.0	95.2	95.2	95.2	95.2	95.2	95.2	95.2	95.2	95.2	95.2	95.2
≥ 1500	88.6	94.0	96.3	98.2	98.4	98.7	98.8	98.8	98.8	98.8	98.8	98.8	98.8	98.8	98.8	98.8
≥ 1200	88.9	94.4	96.8	98.7	99.2	99.4	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5
≥ 1000	88.9	94.4	96.8	98.9	99.4	99.8	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9
≥ 900	88.9	94.4	96.9	99.0	99.5	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 800	88.9	94.4	96.9	99.0	99.5	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 700	88.9	94.4	96.9	99.0	99.5	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 600	88.9	94.4	96.9	99.0	99.5	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 500	88.9	94.4	96.9	99.0	99.5	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 400	88.9	94.4	96.9	99.0	99.5	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 300	88.9	94.4	96.9	99.0	99.5	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 200	88.9	94.4	96.9	99.0	99.5	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 100	88.9	94.4	96.9	99.0	99.5	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 0	88.9	94.4	96.9	99.0	99.5	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TOTAL NUMBER OF OBSERVATIONS 837

GLOBAL CLIMATOLOGY BRANCH  
USAF ETAC  
AF WEATHER SERVICE/MAC

# CEILING VERSUS VISIBILITY

124835  
STATION

MATHER AFB CA  
STATION NAME

73-81  
YEARS

MAR  
MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)

1500-1700  
HOURS (L.S.T.)

CEILING (FEET)	VISIBILITY STATUTE MILES															
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1¼	≥ 1	≥ ¾	≥ ½	≥ ¼	≥ 1/16	≥ 0	≥ 0
NO CEILING		53.7	54.0	54.4	54.5	54.5	54.5	54.5	54.5	54.5	54.5	54.5	54.5	54.5	54.5	54.5
≥ 20000		61.9	62.1	62.8	63.0	63.0	63.0	63.0	63.0	63.0	63.0	63.0	63.0	63.0	63.0	63.0
≥ 18000		61.2	62.5	63.2	63.3	63.3	63.3	63.3	63.3	63.3	63.3	63.3	63.3	63.3	63.3	63.3
≥ 16000		61.4	62.7	63.4	63.6	63.6	63.6	63.6	63.6	63.6	63.6	63.6	63.6	63.6	63.6	63.6
≥ 14000		64.2	65.5	66.2	66.4	66.4	66.4	66.4	66.4	66.4	66.4	66.4	66.4	66.4	66.4	66.4
≥ 12000		66.8	68.1	68.8	69.1	69.1	69.1	69.1	69.1	69.1	69.1	69.1	69.1	69.1	69.1	69.1
≥ 10000		69.2	70.5	71.2	71.4	71.4	71.4	71.4	71.4	71.4	71.4	71.4	71.4	71.4	71.4	71.4
≥ 9000		69.4	70.7	71.4	71.7	71.7	71.7	71.7	71.7	71.7	71.7	71.7	71.7	71.7	71.7	71.7
≥ 8000		72.6	74.0	74.8	75.0	75.0	75.0	75.0	75.0	75.0	75.0	75.0	75.0	75.0	75.0	75.0
≥ 7000		73.7	75.0	76.1	76.6	76.6	76.7	76.7	76.7	76.7	76.7	76.7	76.7	76.7	76.7	76.7
≥ 6000		75.3	76.6	77.9	78.4	78.5	78.6	78.6	78.6	78.6	78.6	78.6	78.6	78.6	78.6	78.6
≥ 5000		78.0	79.3	80.6	81.1	81.2	81.4	81.4	81.4	81.4	81.4	81.4	81.4	81.4	81.4	81.4
≥ 4500		79.1	80.5	81.8	82.4	82.6	82.7	82.7	82.7	82.7	82.7	82.7	82.7	82.7	82.7	82.7
≥ 4000		82.9	84.5	85.8	86.4	86.5	86.6	86.6	86.6	86.6	86.6	86.6	86.6	86.6	86.6	86.6
≥ 3500		84.3	86.1	87.5	88.3	88.4	88.5	88.5	88.5	88.5	88.5	88.5	88.5	88.5	88.5	88.5
≥ 3000		87.0	88.9	90.6	91.5	91.8	92.0	92.1	92.1	92.2	92.2	92.2	92.2	92.2	92.2	92.2
≥ 2500		89.1	91.2	92.8	93.8	94.0	94.4	94.5	94.5	94.6	94.6	94.6	94.6	94.6	94.6	94.6
≥ 2000		90.1	92.4	94.0	95.1	95.5	95.9	96.1	96.1	96.2	96.2	96.2	96.2	96.2	96.2	96.2
≥ 1800		91.7	93.0	94.6	95.7	96.1	96.5	96.7	96.7	96.8	96.8	96.8	96.8	96.8	96.8	96.8
≥ 1500		91.3	94.3	95.9	97.1	97.5	98.1	98.3	98.3	98.4	98.4	98.4	98.4	98.4	98.4	98.4
≥ 1200		91.8	94.9	96.8	98.0	98.6	99.2	99.4	99.4	99.5	99.5	99.5	99.5	99.5	99.5	99.5
≥ 1000		91.9	95.0	96.9	98.3	98.9	99.5	99.8	99.8	99.9	99.9	99.9	99.9	99.9	99.9	99.9
≥ 900		91.9	95.0	96.9	98.3	98.9	99.5	99.8	99.8	99.9	99.9	99.9	99.9	99.9	99.9	99.9
≥ 800		91.9	95.0	96.9	98.3	98.9	99.5	99.8	99.8	99.9	99.9	99.9	99.9	99.9	99.9	99.9
≥ 700		91.9	95.0	96.9	98.3	98.9	99.5	99.9	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 600		91.9	95.0	96.9	98.3	98.9	99.5	99.9	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 500		91.9	95.0	96.9	98.3	98.9	99.5	99.9	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 400		91.9	95.0	96.9	98.3	98.9	99.5	99.9	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 300		91.9	95.0	96.9	98.3	98.9	99.5	99.9	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 200		91.9	95.0	96.9	98.3	98.9	99.5	99.9	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 100		91.9	95.0	96.9	98.3	98.9	99.5	99.9	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 0		91.9	95.0	96.9	98.3	98.9	99.5	99.9	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TOTAL NUMBER OF OBSERVATIONS 837

GLOBAL CLIMATOLOGY BRANCH  
USAF ETAC  
AF WEATHER SERVICE/MAC

# CEILING VERSUS VISIBILITY

72-835

MATHER AFB CA

73-81

MAR

STATION

STATION NAME

YEARS

MONTH

## PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

1800-2000  
HOURS (L.S.T.)

CEILING (FEET)	VISIBILITY STATUTE MILES															
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1¼	≥ 1	≥ ¾	≥ ½	≥ ¼	≥ 5/16	≥ ¼	≥ 0
NO CEILING		60.1	67.6	61.4	61.4	61.4	61.4	61.4	61.4	61.4	61.4	61.4	61.4	61.4	61.4	61.4
≥ 20000		68.0	68.5	69.4	69.4	69.4	69.4	69.4	69.4	69.4	69.4	69.4	69.4	69.4	69.4	69.4
≥ 18000		68.3	68.8	69.8	69.8	69.8	69.8	69.8	69.8	69.8	69.8	69.8	69.8	69.8	69.8	69.8
≥ 16000		68.6	69.1	70.0	70.0	70.0	70.0	70.0	70.0	70.0	70.0	70.0	70.0	70.0	70.0	70.0
≥ 14000		70.3	70.7	71.7	71.8	71.8	71.8	71.8	71.8	71.8	71.8	71.8	71.8	71.8	71.8	71.8
≥ 12000		72.2	72.6	73.6	73.7	73.7	73.7	73.7	73.7	73.7	73.7	73.7	73.7	73.7	73.7	73.7
≥ 10000		75.1	75.7	76.7	76.8	76.8	76.8	76.8	76.8	76.8	76.8	76.8	76.8	76.8	76.8	76.8
≥ 9000		75.3	75.9	76.8	76.9	76.9	76.9	76.9	76.9	76.9	76.9	76.9	76.9	76.9	76.9	76.9
≥ 8000		78.3	79.1	80.2	80.3	80.3	80.3	80.3	80.3	80.3	80.3	80.3	80.3	80.3	80.3	80.3
≥ 7000		79.2	80.0	81.1	81.2	81.2	81.2	81.4	81.4	81.4	81.4	81.4	81.4	81.4	81.4	81.4
≥ 6000		81.1	82.1	83.3	83.4	83.4	83.4	83.5	83.5	83.5	83.5	83.5	83.5	83.5	83.5	83.5
≥ 5000		84.7	84.9	86.1	86.3	86.3	86.3	86.4	86.4	86.4	86.4	86.4	86.4	86.4	86.4	86.4
≥ 4500		86.3	87.2	88.4	88.5	88.5	88.5	88.6	88.6	88.6	88.6	88.6	88.6	88.6	88.6	88.6
≥ 4000		88.5	89.5	91.7	91.0	91.0	91.2	91.4	91.4	91.4	91.4	91.4	91.4	91.4	91.4	91.4
≥ 3500		90.6	91.6	93.0	93.3	93.3	93.4	93.7	93.7	93.7	93.7	93.7	93.7	93.7	93.7	93.7
≥ 3000		93.3	94.4	95.7	96.1	96.1	96.2	96.4	96.4	96.4	96.4	96.4	96.4	96.4	96.4	96.4
≥ 2500		93.8	94.9	96.2	96.5	96.8	96.9	97.1	97.1	97.1	97.1	97.1	97.1	97.1	97.1	97.1
≥ 2000		94.0	95.6	96.9	97.3	97.6	97.7	98.0	98.0	98.0	98.0	98.0	98.0	98.0	98.0	98.0
≥ 1800		94.1	95.7	97.0	97.4	97.7	97.8	98.1	98.1	98.1	98.1	98.1	98.1	98.1	98.1	98.1
≥ 1500		94.5	96.1	97.4	97.8	98.2	98.3	98.6	98.6	98.7	98.7	98.7	98.7	98.7	98.7	98.7
≥ 1200		94.6	96.3	97.6	98.3	98.7	98.8	99.2	99.3	99.4	99.4	99.4	99.4	99.4	99.4	99.4
≥ 1000		94.6	96.4	97.8	98.6	98.9	99.0	99.4	99.5	99.6	99.6	99.6	99.6	99.6	99.6	99.6
≥ 900		94.7	96.5	98.0	98.7	99.0	99.2	99.5	99.6	99.8	99.8	99.8	99.8	99.8	99.8	99.8
≥ 800		94.9	96.7	98.1	98.8	99.2	99.3	99.6	99.8	99.9	99.9	99.9	99.9	99.9	99.9	99.9
≥ 700		94.9	96.7	98.1	98.8	99.2	99.3	99.6	99.8	99.9	99.9	99.9	99.9	99.9	99.9	99.9
≥ 600		94.9	96.7	98.1	98.8	99.2	99.3	99.6	99.8	99.9	99.9	99.9	99.9	99.9	99.9	99.9
≥ 500		94.9	96.7	98.1	98.8	99.2	99.3	99.6	99.8	99.9	99.9	99.9	99.9	99.9	99.9	99.9
≥ 400		94.9	96.8	98.2	98.9	99.3	99.4	99.8	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 300		94.9	96.8	98.2	98.9	99.3	99.4	99.8	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 200		94.9	96.8	98.2	98.9	99.3	99.4	99.8	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 100		94.9	96.8	98.2	98.9	99.3	99.4	99.8	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 0		94.9	96.8	98.2	98.9	99.3	99.4	99.8	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TOTAL NUMBER OF OBSERVATIONS 837

GENERAL CLIMATOLOGY BRANCH  
USAF ETAC  
AIR WEATHER SERVICE/MAC

## CEILING VERSUS VISIBILITY

72-835  
STATION

MATHER AFB CA  
STATION NAME

73-81  
YEARS

MAR  
MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)

2100-2300  
HOURS (L.S.T.)

CEILING (FEET)	VISIBILITY STATUTE MILES															
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1¼	≥ 1	≥ ¾	≥ ½	≥ ¼	≥ 1/16	≥ 0	≥ 0
NO CEILING	64.2	64.6	65.2	65.2	65.2	65.2	65.2	65.2	65.2	65.2	65.2	65.2	65.2	65.2	65.2	65.2
≥ 20000	67.4	67.9	68.6	68.6	68.6	68.6	68.6	68.6	68.6	68.6	68.6	68.6	68.6	68.6	68.6	68.6
≥ 18000	67.4	67.9	68.6	68.6	68.6	68.6	68.6	68.6	68.6	68.6	68.6	68.6	68.6	68.6	68.6	68.6
≥ 16000	67.9	68.3	69.1	69.1	69.1	69.1	69.1	69.1	69.1	69.1	69.1	69.1	69.1	69.1	69.1	69.1
≥ 14000	70.4	70.8	71.7	71.7	71.7	71.7	71.7	71.7	71.7	71.7	71.7	71.7	71.7	71.7	71.7	71.7
≥ 12000	71.1	71.6	72.4	72.4	72.4	72.4	72.4	72.4	72.4	72.4	72.4	72.4	72.4	72.4	72.4	72.4
≥ 10000	74.9	75.4	76.2	76.6	76.6	76.6	76.6	76.6	76.6	76.6	76.6	76.6	76.6	76.6	76.6	76.6
≥ 9000	74.9	75.5	76.3	76.7	76.7	76.7	76.7	76.7	76.7	76.7	76.7	76.7	76.7	76.7	76.7	76.7
≥ 8000	77.9	78.9	79.7	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0
≥ 7000	78.7	79.7	80.5	80.9	80.9	80.9	80.9	80.9	80.9	80.9	80.9	80.9	80.9	80.9	80.9	80.9
≥ 6000	80.0	81.0	81.8	82.2	82.2	82.2	82.2	82.2	82.2	82.2	82.2	82.2	82.2	82.2	82.2	82.2
≥ 5000	82.0	83.2	84.2	84.6	84.6	84.6	84.6	84.6	84.6	84.6	84.6	84.6	84.6	84.6	84.6	84.6
≥ 4500	85.8	87.0	88.2	88.5	88.5	88.5	88.5	88.5	88.5	88.5	88.5	88.5	88.5	88.5	88.5	88.5
≥ 4000	88.3	89.5	90.7	91.5	91.5	91.5	91.5	91.5	91.5	91.5	91.5	91.5	91.5	91.5	91.5	91.5
≥ 3500	89.8	91.0	92.2	93.1	93.1	93.1	93.1	93.1	93.1	93.1	93.1	93.1	93.1	93.1	93.1	93.1
≥ 3000	9.2	93.7	95.0	96.2	96.2	96.2	96.2	96.2	96.2	96.2	96.2	96.2	96.2	96.2	96.2	96.2
≥ 2500	92.7	94.3	95.6	96.8	96.8	96.8	96.8	96.8	96.8	96.8	96.8	96.8	96.8	96.8	96.8	96.8
≥ 2000	93.9	95.5	96.8	98.1	98.1	98.1	98.1	98.1	98.1	98.1	98.1	98.1	98.1	98.1	98.1	98.1
≥ 1800	94.4	95.9	97.3	98.4	98.6	98.6	98.6	98.6	98.6	98.6	98.6	98.6	98.6	98.6	98.6	98.6
≥ 1500	94.9	96.4	97.7	98.9	99.0	99.0	99.0	99.0	99.0	99.0	99.0	99.0	99.0	99.0	99.0	99.0
≥ 1200	95.2	96.8	98.1	99.3	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4
≥ 1000	95.5	97.1	98.4	99.6	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8
≥ 900	95.5	97.1	98.4	99.6	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8
≥ 800	95.6	97.4	98.7	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 700	95.6	97.4	98.7	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 600	95.6	97.4	98.7	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 500	95.6	97.4	98.7	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 400	95.6	97.4	98.7	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 300	95.6	97.4	98.7	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 200	95.6	97.4	98.7	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 100	95.6	97.4	98.7	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 0	95.6	97.4	98.7	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TOTAL NUMBER OF OBSERVATIONS 837

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

# CEILING VERSUS VISIBILITY

724835  
STATION

MATHER AFB CA  
STATION NAME

73-81  
YEARS

MAR  
MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)

ALL  
HOURS (L.S.T.)

CEILING (FEET)	VISIBILITY STATUTE MILES															
	≥10	≥6	≥5	≥4	≥3	≥2½	≥2	≥1½	≥1¼	≥1	≥¾	≥½	≥¼	≥5/16	≥¼	≥0
NO CEILING		54.7	56.0	56.9	57.2	57.2	57.3	57.3	57.3	57.3	57.3	57.3	57.3	57.3	57.3	57.3
≥ 20000		60.7	62.1	63.2	63.6	63.6	63.6	63.6	63.6	63.6	63.6	63.6	63.6	63.6	63.7	63.7
≥ 18000		61.0	62.5	63.6	64.0	64.0	64.0	64.0	64.0	64.0	64.0	64.0	64.0	64.0	64.0	64.1
≥ 16000		61.3	62.8	63.9	64.3	64.3	64.3	64.3	64.3	64.3	64.3	64.3	64.3	64.3	64.3	64.3
≥ 14000		63.1	64.7	65.8	66.3	66.3	66.3	66.3	66.3	66.3	66.3	66.3	66.3	66.3	66.3	66.3
≥ 12000		55.2	66.8	67.9	68.4	68.4	68.4	68.4	68.4	68.4	68.4	68.4	68.4	68.4	68.4	68.4
≥ 10000		68.3	70.0	71.1	71.7	71.7	71.7	71.8	71.8	71.8	71.8	71.8	71.8	71.8	71.8	71.8
≥ 9000		68.4	70.1	71.3	71.9	71.9	72.0	72.0	72.0	72.0	72.0	72.0	72.0	72.0	72.0	72.0
≥ 8000		71.4	73.3	74.5	75.2	75.2	75.3	75.3	75.3	75.3	75.3	75.3	75.3	75.3	75.3	75.3
≥ 7000		72.3	74.2	75.6	76.3	76.3	76.3	76.4	76.4	76.4	76.4	76.4	76.4	76.4	76.4	76.4
≥ 6000		73.7	75.7	77.2	77.9	78.0	78.0	78.1	78.1	78.1	78.1	78.1	78.1	78.1	78.1	78.1
≥ 5000		76.1	78.2	79.7	80.5	80.6	80.6	80.7	80.7	80.7	80.7	80.7	80.7	80.7	80.7	80.7
≥ 4500		78.3	80.6	82.2	83.0	83.1	83.2	83.2	83.2	83.2	83.2	83.2	83.2	83.2	83.2	83.2
≥ 4000		80.6	83.0	84.6	85.5	85.6	85.7	85.8	85.8	85.8	85.8	85.8	85.8	85.8	85.8	85.9
≥ 3500		82.1	84.5	86.2	87.2	87.3	87.4	87.5	87.5	87.5	87.5	87.5	87.5	87.5	87.5	87.5
≥ 3000		85.2	87.9	89.7	90.8	91.0	91.1	91.2	91.2	91.2	91.2	91.2	91.2	91.2	91.2	91.2
≥ 2500		86.1	88.9	90.7	91.8	92.0	92.2	92.3	92.3	92.3	92.3	92.3	92.3	92.3	92.3	92.3
≥ 2000		87.6	90.7	92.6	93.7	94.0	94.1	94.2	94.2	94.3	94.3	94.3	94.3	94.3	94.3	94.3
≥ 1800		88.0	91.1	93.0	94.2	94.4	94.6	94.7	94.7	94.7	94.7	94.7	94.7	94.7	94.7	94.8
≥ 1500		89.2	92.6	94.7	96.1	96.4	96.6	96.7	96.7	96.8	96.8	96.8	96.8	96.8	96.8	96.8
≥ 1200		89.8	93.3	95.6	97.1	97.4	97.7	97.8	97.8	97.9	97.9	97.9	97.9	97.9	97.9	97.9
≥ 1000		90.0	93.5	95.8	97.4	97.8	98.1	98.2	98.2	98.3	98.3	98.3	98.3	98.3	98.3	98.3
≥ 900		91.1	93.7	96.1	97.6	98.0	98.3	98.5	98.5	98.5	98.5	98.5	98.5	98.5	98.6	98.6
≥ 800		90.3	93.9	96.3	97.9	98.3	98.6	98.7	98.8	98.8	98.8	98.8	98.8	98.8	98.9	98.9
≥ 700		90.4	94.0	96.4	98.0	98.4	98.7	98.9	98.9	99.0	99.0	99.0	99.0	99.0	99.0	99.0
≥ 600		90.4	94.1	96.4	98.1	98.6	98.9	99.0	99.1	99.1	99.1	99.1	99.1	99.1	99.2	99.2
≥ 500		90.5	94.1	96.6	98.4	98.8	99.1	99.3	99.4	99.4	99.4	99.4	99.4	99.4	99.5	99.5
≥ 400		90.5	94.2	96.6	98.5	98.9	99.2	99.5	99.5	99.6	99.6	99.6	99.6	99.6	99.6	99.7
≥ 300		90.5	94.2	96.7	98.6	99.0	99.3	99.6	99.6	99.7	99.7	99.7	99.7	99.7	99.7	99.7
≥ 200		90.5	94.2	96.7	98.6	99.0	99.3	99.6	99.6	99.7	99.7	99.7	99.7	99.7	99.7	99.7
≥ 100		90.5	94.2	96.7	98.6	99.0	99.3	99.6	99.6	99.7	99.7	99.7	99.7	99.7	99.7	99.7
≥ 0		90.5	94.2	96.7	98.6	99.0	99.3	99.6	99.6	99.7	99.7	99.7	99.7	99.7	99.7	99.7

TOTAL NUMBER OF OBSERVATIONS 6696

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

# CEILING VERSUS VISIBILITY

724835  
STATION

MATHER AFB CA  
STATION NAME

73-81  
YEARS

APR  
MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)

0000-0200  
HOURS (L.S.T.)

CEILING (FEET)	VISIBILITY STATUTE MILES															
	≥10	≥6	≥5	≥4	≥3	≥2½	≥2	≥1½	≥1¼	≥1	¾	¾	¾	¾	≥5/16	≥¼
NO CEILING		76.9	77.0	77.0	77.0	77.0	77.0	77.0	77.0	77.0	77.0	77.0	77.0	77.0	77.0	77.0
≥ 20000		81.2	81.4	81.4	81.4	81.4	81.4	81.4	81.4	81.4	81.4	81.4	81.4	81.4	81.4	81.4
≥ 18000		81.6	81.7	81.7	81.7	81.7	81.7	81.7	81.7	81.7	81.7	81.7	81.7	81.7	81.7	81.7
≥ 16000		81.6	81.7	81.7	81.7	81.7	81.7	81.7	81.7	81.7	81.7	81.7	81.7	81.7	81.7	81.7
≥ 14000		82.7	82.8	82.8	82.8	82.8	82.8	82.8	82.8	82.8	82.8	82.8	82.8	82.8	82.8	82.8
≥ 12000		84.4	84.6	84.6	84.6	84.6	84.6	84.6	84.6	84.6	84.6	84.6	84.6	84.6	84.6	84.6
≥ 10000		86.5	86.7	86.7	86.7	86.7	86.7	86.7	86.7	86.7	86.7	86.7	86.7	86.7	86.7	86.7
≥ 9000		86.9	87.0	87.0	87.0	87.0	87.0	87.0	87.0	87.0	87.0	87.0	87.0	87.0	87.0	87.0
≥ 8000		88.6	88.8	88.8	88.8	88.8	88.8	88.8	88.8	88.8	88.8	88.8	88.8	88.8	88.8	88.8
≥ 7000		89.5	89.6	89.6	89.6	89.6	89.6	89.6	89.6	89.6	89.6	89.6	89.6	89.6	89.6	89.6
≥ 6000		90.2	90.4	90.4	90.4	90.4	90.4	90.4	90.4	90.4	90.4	90.4	90.4	90.4	90.4	90.4
≥ 5000		92.5	92.6	92.6	92.6	92.6	92.6	92.6	92.6	92.6	92.6	92.6	92.6	92.6	92.6	92.6
≥ 4500		94.0	94.1	94.1	94.1	94.1	94.1	94.1	94.1	94.1	94.1	94.1	94.1	94.1	94.1	94.1
≥ 4000		95.6	95.7	95.7	95.7	95.7	95.7	95.7	95.7	95.7	95.7	95.7	95.7	95.7	95.7	95.7
≥ 3500		96.4	96.5	96.5	96.7	96.7	96.7	96.7	96.7	96.7	96.7	96.7	96.7	96.7	96.7	96.7
≥ 3000		97.9	98.0	98.0	98.3	98.3	98.3	98.3	98.3	98.3	98.3	98.3	98.3	98.3	98.3	98.3
≥ 2500		97.9	98.3	98.3	98.5	98.5	98.5	98.5	98.5	98.5	98.5	98.5	98.5	98.5	98.5	98.5
≥ 2000		98.4	98.9	98.9	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3
≥ 1800		98.4	98.9	98.9	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3
≥ 1500		98.5	99.1	99.1	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5
≥ 1200		98.9	99.5	99.5	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9
≥ 1000		98.9	99.5	99.5	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9
≥ 900		98.9	99.5	99.5	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9
≥ 800		98.9	99.6	99.6	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 700		98.9	99.6	99.6	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 600		98.9	99.6	99.6	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 500		98.9	99.6	99.6	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 400		98.9	99.6	99.6	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 300		98.9	99.6	99.6	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 200		98.9	99.6	99.6	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 100		98.9	99.6	99.6	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 0		98.9	99.6	99.6	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TOTAL NUMBER OF OBSERVATIONS 810



GLOBAL CLIMATOLOGY BRANCH  
USAF ETAC  
AIR WEATHER SERVICE/MAC

# CEILING VERSUS VISIBILITY

720835

MATHER AFB CA

73-81

APR

STATION

STATION NAME

YEARS

MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)

0300-0500  
HOURS (L.S.T.)

CEILING (FEET)	VISIBILITY STATUTE MILES															
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1¼	≥ 1	≥ ¾	≥ ½	≥ ¼	≥ 1/16	≥ 0	≥ 0
NO CEILING		74.2	74.8	75.1	75.2	75.2	75.2	75.2	75.2	75.3	75.3	75.3	75.3	75.3	75.3	75.3
≥ 20000		78.6	79.3	79.5	79.6	79.6	79.6	79.6	79.6	79.8	79.8	79.8	79.8	79.8	79.8	79.8
≥ 18000		79.1	79.8	80.0	80.1	80.1	80.1	80.1	80.1	80.2	80.2	80.2	80.2	80.2	80.2	80.2
≥ 16000		79.4	80.0	80.2	80.4	80.4	80.4	80.4	80.4	80.5	80.5	80.5	80.5	80.5	80.5	80.5
≥ 14000		81.4	81.7	81.2	81.4	81.4	81.4	81.4	81.4	81.5	81.5	81.5	81.5	81.5	81.5	81.5
≥ 12000		82.3	83.0	83.2	83.3	83.3	83.3	83.3	83.3	83.5	83.5	83.5	83.5	83.5	83.5	83.5
≥ 10000		84.3	84.9	85.2	85.3	85.3	85.3	85.3	85.3	85.4	85.4	85.4	85.4	85.4	85.4	85.4
≥ 9000		84.8	85.4	85.7	85.8	85.8	85.8	85.8	85.8	85.9	85.9	85.9	85.9	85.9	85.9	85.9
≥ 8000		86.9	87.5	87.8	87.9	87.9	87.9	87.9	87.9	88.0	88.0	88.0	88.0	88.0	88.0	88.0
≥ 7000		87.5	88.1	88.4	88.5	88.5	88.5	88.5	88.5	88.6	88.6	88.6	88.6	88.6	88.6	88.6
≥ 6000		88.1	88.8	89.0	89.1	89.1	89.1	89.1	89.1	89.3	89.3	89.3	89.3	89.3	89.3	89.3
≥ 5000		89.8	90.4	90.6	90.7	90.7	90.7	90.7	90.7	90.9	90.9	90.9	90.9	90.9	90.9	90.9
≥ 4500		90.9	91.5	91.7	92.0	92.0	92.0	92.0	92.0	92.1	92.1	92.1	92.1	92.1	92.1	92.1
≥ 4000		92.0	92.6	92.8	93.1	93.1	93.1	93.1	93.1	93.2	93.2	93.2	93.2	93.2	93.2	93.2
≥ 3500		92.8	93.5	93.7	94.2	94.2	94.2	94.2	94.2	94.3	94.3	94.3	94.3	94.3	94.3	94.3
≥ 3000		94.4	95.4	95.7	96.2	96.2	96.2	96.2	96.2	96.3	96.3	96.3	96.3	96.3	96.3	96.3
≥ 2500		94.9	96.0	96.4	96.9	96.9	96.9	96.9	96.9	97.0	97.0	97.0	97.0	97.0	97.0	97.0
≥ 2000		95.8	96.9	97.3	97.8	97.8	97.8	97.8	97.8	97.9	97.9	97.9	97.9	97.9	97.9	97.9
≥ 1800		96.0	97.2	97.5	98.0	98.0	98.0	98.0	98.0	98.1	98.1	98.1	98.1	98.1	98.1	98.1
≥ 1500		96.4	97.5	98.0	99.0	99.0	99.0	99.0	99.0	99.1	99.1	99.1	99.1	99.1	99.1	99.1
≥ 1200		96.8	97.9	98.4	99.4	99.4	99.4	99.4	99.4	99.5	99.5	99.5	99.5	99.5	99.5	99.5
≥ 1000		96.8	97.9	98.4	99.4	99.4	99.4	99.4	99.4	99.5	99.5	99.5	99.5	99.5	99.5	99.5
≥ 900		97.0	98.1	98.6	99.6	99.6	99.6	99.6	99.6	99.8	99.8	99.8	99.8	99.8	99.8	99.8
≥ 800		97.2	98.3	98.8	99.8	99.8	99.8	99.8	99.8	99.9	99.9	99.9	99.9	99.9	99.9	99.9
≥ 700		97.3	98.4	98.9	99.9	99.9	99.9	99.9	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 600		97.3	98.4	98.9	99.9	99.9	99.9	99.9	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 500		97.3	98.4	98.9	99.9	99.9	99.9	99.9	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 400		97.3	98.4	98.9	99.9	99.9	99.9	99.9	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 300		97.3	98.4	98.9	99.9	99.9	99.9	99.9	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 200		97.3	98.4	98.9	99.9	99.9	99.9	99.9	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 100		97.3	98.4	98.9	99.9	99.9	99.9	99.9	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 0		97.3	98.4	98.9	99.9	99.9	99.9	99.9	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TOTAL NUMBER OF OBSERVATIONS 810

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

## CEILING VERSUS VISIBILITY

72-835  
STATION

MATHER AFB CA  
STATION NAME

73-81  
YEARS

APR  
MONTH

### PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

0600-0800  
HOURS (L.S.T.)

CEILING (FEET)	VISIBILITY STATUTE MILES															
	≥10	≥6	≥5	≥4	≥3	≥2½	≥2	≥1½	≥1¼	≥1	¾	¾	¾	¾	≥5/16	≥¼
NO CEILING		66.4	69.7	70.6	70.8	71.0	71.0	71.0	71.0	71.0	71.0	71.0	71.0	71.0	71.1	71.1
≥20000		72.3	75.4	76.3	76.5	76.6	76.6	76.6	76.6	76.6	76.6	76.6	76.6	76.6	76.8	76.8
≥18000		72.7	75.8	76.6	76.9	77.0	77.0	77.0	77.0	77.0	77.0	77.0	77.0	77.0	77.1	77.1
≥16000		72.7	75.8	76.6	76.9	77.0	77.0	77.0	77.0	77.0	77.0	77.0	77.0	77.0	77.1	77.1
≥14000		74.9	78.9	78.9	79.1	79.2	79.2	79.2	79.2	79.2	79.2	79.2	79.2	79.2	79.4	79.4
≥12000		75.9	79.9	79.9	80.1	80.2	80.2	80.2	80.2	80.2	80.2	80.2	80.2	80.2	80.3	80.3
≥10000		78.0	81.2	82.1	82.3	82.4	82.4	82.4	82.4	82.4	82.4	82.4	82.4	82.4	82.6	82.6
≥9000		78.4	81.6	82.4	82.7	82.8	82.8	82.8	82.8	82.8	82.8	82.8	82.8	82.8	82.9	82.9
≥8000		80.1	83.3	84.2	84.4	84.5	84.5	84.5	84.5	84.5	84.5	84.5	84.5	84.5	84.7	84.7
≥7000		80.8	84.1	84.9	85.2	85.3	85.3	85.3	85.3	85.3	85.3	85.3	85.3	85.3	85.4	85.4
≥6000		81.8	85.0	86.0	86.3	86.4	86.4	86.4	86.4	86.4	86.4	86.4	86.4	86.4	86.5	86.5
≥5000		83.1	86.4	87.4	87.6	87.8	87.8	87.8	87.8	87.8	87.8	87.8	87.8	87.8	87.9	87.9
≥4500		84.1	87.8	88.8	89.0	89.1	89.1	89.1	89.1	89.1	89.1	89.1	89.1	89.1	89.2	89.2
≥4000		85.4	89.2	90.2	90.5	90.6	90.6	90.6	90.6	90.6	90.6	90.6	90.6	90.6	90.7	90.7
≥3500		86.5	90.4	91.3	91.7	91.8	91.8	91.8	91.8	91.8	91.8	91.8	91.8	91.8	92.0	92.0
≥3000		89.1	93.1	94.2	94.6	94.7	94.7	94.7	94.7	94.7	94.7	94.7	94.7	94.7	94.8	94.8
≥2500		90.0	93.9	95.1	95.4	95.6	95.8	95.8	95.8	95.8	95.8	95.8	95.8	95.8	95.9	95.9
≥2000		90.5	94.7	95.8	96.2	96.3	96.5	96.5	96.5	96.5	96.5	96.5	96.5	96.5	96.7	96.7
≥1800		90.9	95.1	96.2	96.5	96.7	96.9	96.9	96.9	96.9	96.9	96.9	96.9	96.9	97.0	97.0
≥1500		91.2	95.6	96.7	97.3	97.4	97.7	97.7	97.7	97.7	97.7	97.7	97.7	97.7	97.8	97.8
≥1200		91.5	95.8	97.0	97.7	97.9	98.1	98.1	98.1	98.1	98.1	98.1	98.1	98.1	98.3	98.3
≥1000		92.0	96.3	97.5	98.1	98.4	98.6	98.6	98.6	98.6	98.6	98.6	98.6	98.6	98.8	98.8
≥900		92.3	96.7	97.9	98.5	98.8	99.0	99.0	99.0	99.0	99.0	99.0	99.0	99.0	99.1	99.1
≥800		92.3	96.7	97.9	98.5	98.8	99.0	99.0	99.0	99.0	99.0	99.0	99.0	99.0	99.1	99.1
≥700		92.3	96.7	97.9	98.5	98.8	99.0	99.0	99.0	99.0	99.0	99.0	99.0	99.0	99.1	99.1
≥600		92.5	96.8	98.0	98.6	98.9	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.4	99.4
≥500		92.7	97.2	98.4	99.1	99.4	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.9	99.9
≥400		92.7	97.2	98.4	99.3	99.5	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	100.0	100.0
≥300		92.7	97.2	98.4	99.3	99.5	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	100.0	100.0
≥200		92.7	97.2	98.4	99.3	99.5	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	100.0	100.0
≥100		92.7	97.2	98.4	99.3	99.5	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	100.0	100.0
≥0		92.7	97.2	98.4	99.3	99.5	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	100.0	100.0

TOTAL NUMBER OF OBSERVATIONS 809

GLOBAL CLIMATOLOGY BRANCH  
USAF ETAC  
AF WEATHER SERVICE/MAC

## CEILING VERSUS VISIBILITY

724835  
STATION

MATHER AFB CA  
STATION NAME

73-81  
YEARS

APR  
MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)

0900-1100  
HOURS (L.G.T.)

CEILING (FEET)	VISIBILITY STATUTE MILES															
	≥10	≥6	≥5	≥4	≥3	≥2½	≥2	≥1½	≥1¼	≥1	¾	¾	¾	¾	≥5/16	≥¼
NO CEILING		65.2	66.7	66.9	66.9	67.0	67.0	67.0	67.0	67.0	67.0	67.0	67.0	67.0	67.0	67.0
≥ 20000		72.5	74.1	74.3	74.3	74.4	74.4	74.4	74.4	74.4	74.4	74.4	74.4	74.4	74.4	74.4
≥ 18000		72.6	74.2	74.4	74.4	74.6	74.6	74.6	74.6	74.6	74.6	74.6	74.6	74.6	74.6	74.6
≥ 16000		72.6	74.2	74.4	74.4	74.6	74.6	74.6	74.6	74.6	74.6	74.6	74.6	74.6	74.6	74.6
≥ 14000		74.1	75.7	75.9	75.9	76.0	76.0	76.0	76.0	76.0	76.0	76.0	76.0	76.0	76.0	76.0
≥ 12000		75.2	76.8	77.0	77.0	77.2	77.2	77.2	77.2	77.2	77.2	77.2	77.2	77.2	77.2	77.2
≥ 10000		76.7	78.4	78.6	78.6	78.8	78.8	78.8	78.8	78.8	78.8	78.8	78.8	78.8	78.8	78.8
≥ 9000		77.7	79.4	79.6	79.6	79.8	79.8	79.8	79.8	79.8	79.8	79.8	79.8	79.8	79.8	79.8
≥ 8000		79.1	80.9	81.1	81.1	81.2	81.2	81.2	81.2	81.2	81.2	81.2	81.2	81.2	81.2	81.2
≥ 7000		79.6	81.4	81.6	81.6	81.7	81.7	81.7	81.7	81.7	81.7	81.7	81.7	81.7	81.7	81.7
≥ 6000		80.9	82.7	83.0	83.0	83.1	83.1	83.1	83.1	83.1	83.1	83.1	83.1	83.1	83.1	83.1
≥ 5000		82.2	84.1	84.3	84.3	84.4	84.4	84.4	84.4	84.4	84.4	84.4	84.4	84.4	84.4	84.4
≥ 4500		83.6	85.4	85.7	85.7	85.8	85.8	85.8	85.8	85.8	85.8	85.8	85.8	85.8	85.8	85.8
≥ 4000		86.3	88.1	88.4	88.4	88.5	88.5	88.5	88.5	88.5	88.5	88.5	88.5	88.5	88.5	88.5
≥ 3500		88.0	90.0	90.2	90.4	90.5	90.5	90.5	90.5	90.5	90.5	90.5	90.5	90.5	90.5	90.5
≥ 3000		91.1	93.2	93.6	93.7	93.8	93.8	93.8	93.8	93.8	93.8	93.8	93.8	93.8	93.8	93.8
≥ 2500		91.9	94.0	94.3	94.4	94.6	94.6	94.6	94.6	94.6	94.6	94.6	94.6	94.6	94.6	94.6
≥ 2000		92.8	94.9	95.3	95.4	95.6	95.6	95.6	95.6	95.6	95.6	95.6	95.6	95.6	95.6	95.6
≥ 1800		93.1	95.2	95.6	95.7	95.8	95.8	95.8	95.8	95.8	95.8	95.8	95.8	95.8	95.8	95.8
≥ 1500		95.2	97.7	98.1	98.4	98.5	98.5	98.5	98.5	98.5	98.5	98.5	98.5	98.5	98.5	98.5
≥ 1200		95.8	98.3	98.8	99.0	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1
≥ 1000		95.8	98.4	98.9	99.1	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3
≥ 900		95.8	98.4	98.9	99.1	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3
≥ 800		96.0	98.6	99.1	99.4	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5
≥ 700		96.3	98.9	99.4	99.8	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9
≥ 600		96.3	98.9	99.4	99.8	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9
≥ 500		96.4	99.0	99.5	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 400		96.4	99.0	99.5	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 300		96.4	99.0	99.5	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 200		96.4	99.0	99.5	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 100		96.4	99.0	99.5	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 0		96.4	99.0	99.5	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TOTAL NUMBER OF OBSERVATIONS 810

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
ALL WEATHER SERVICE/MAC

## CEILING VERSUS VISIBILITY

724835

MATHER AFB CA

73-81

APR

STATION

STATION NAME

YEARS

MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)

1200-1400  
HOURS (L.S.T.)

CEILING (FEET)	VISIBILITY: STATUTE MILES															
	≥10	≥6	≥5	≥4	≥3	≥2½	≥2	≥1½	≥1¼	≥1	≥¾	≥½	≥¼	≥5/16	≥¼	≥0
NO CEILING		63.8	64.8	65.1	65.1	65.1	65.1	65.1	65.1	65.1	65.1	65.1	65.1	65.1	65.1	65.1
≥ 20000		72.2	73.8	74.1	74.1	74.1	74.1	74.1	74.1	74.1	74.1	74.1	74.1	74.1	74.1	74.1
≥ 18000		73.0	74.6	74.8	74.8	74.8	74.8	74.8	74.8	74.8	74.8	74.8	74.8	74.8	74.8	74.8
≥ 16000		73.0	74.6	74.8	74.8	74.8	74.8	74.8	74.8	74.8	74.8	74.8	74.8	74.8	74.8	74.8
≥ 14000		73.8	75.4	75.7	75.7	75.7	75.7	75.7	75.7	75.7	75.7	75.7	75.7	75.7	75.7	75.7
≥ 12000		75.1	76.7	76.9	76.9	76.9	76.9	76.9	76.9	76.9	76.9	76.9	76.9	76.9	76.9	76.9
≥ 10000		76.7	78.5	78.8	78.8	78.8	78.8	78.8	78.8	78.8	78.8	78.8	78.8	78.8	78.8	78.8
≥ 9000		77.4	79.3	79.5	79.5	79.5	79.5	79.5	79.5	79.5	79.5	79.5	79.5	79.5	79.5	79.5
≥ 8000		79.3	81.2	81.5	81.5	81.5	81.5	81.5	81.5	81.5	81.5	81.5	81.5	81.5	81.5	81.5
≥ 7000		79.3	81.2	81.5	81.5	81.5	81.5	81.5	81.5	81.5	81.5	81.5	81.5	81.5	81.5	81.5
≥ 6000		81.4	82.7	82.6	82.6	82.6	82.6	82.6	82.6	82.6	82.6	82.6	82.6	82.6	82.6	82.6
≥ 5000		82.1	84.4	84.7	84.7	84.7	84.7	84.7	84.7	84.7	84.7	84.7	84.7	84.7	84.7	84.7
≥ 4500		83.7	86.7	86.3	86.3	86.3	86.3	86.3	86.3	86.3	86.3	86.3	86.3	86.3	86.3	86.3
≥ 4000		87.0	89.5	89.8	89.8	89.8	89.8	89.8	89.8	89.8	89.8	89.8	89.8	89.8	89.8	89.8
≥ 3500		89.3	91.9	92.1	92.2	92.2	92.2	92.2	92.2	92.2	92.2	92.2	92.2	92.2	92.2	92.2
≥ 3000		94.3	97.2	97.5	97.7	97.8	97.8	97.8	97.8	97.8	97.8	97.8	97.8	97.8	97.8	97.8
≥ 2500		94.7	97.7	98.0	98.1	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4
≥ 2000		94.9	97.9	98.3	98.4	98.6	98.6	98.6	98.6	98.6	98.6	98.6	98.6	98.6	98.6	98.6
≥ 1800		95.1	98.0	98.4	98.5	98.8	98.8	98.8	98.8	98.8	98.8	98.8	98.8	98.8	98.8	98.8
≥ 1500		95.2	98.4	98.8	98.9	99.1	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3
≥ 1200		95.3	98.5	98.9	99.1	99.4	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5
≥ 1000		95.3	98.5	98.9	99.1	99.4	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5
≥ 900		95.3	98.5	98.9	99.1	99.4	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5
≥ 800		95.3	98.5	99.0	99.4	99.6	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8
≥ 700		95.3	98.5	99.0	99.6	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 600		95.3	98.5	99.0	99.6	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 500		95.3	98.5	99.0	99.6	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 400		95.3	98.5	99.0	99.6	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 300		95.3	98.5	99.0	99.6	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 200		95.3	98.5	99.0	99.6	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 100		95.3	98.5	99.0	99.6	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 0		95.3	98.5	99.0	99.6	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TOTAL NUMBER OF OBSERVATIONS 810

GLOBAL CLIMATOLOGY BRANCH  
 WAFETAC  
 AIR WEATHER SERVICE/MAC

# CEILING VERSUS VISIBILITY

724835

MATHER AFB CA

73-81

APR

STATION

STATION NAME

YEARS

MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE  
 (FROM HOURLY OBSERVATIONS)

1500-1700  
 HOURS (L.S.T.)

CEILING (FEET)	VISIBILITY STATUTE MILES																
	≥10	≥6	≥5	≥4	≥3	≥2½	≥2	≥1½	≥1¼	≥1	¾	¾	¾	¾	≥5/16	≥¼	≥0
NO CEILING		67.7	67.4	67.5	67.5	67.5	67.5	67.5	67.5	67.5	67.5	67.5	67.5	67.5	67.5	67.5	67.5
≥ 20000		76.6	77.4	77.5	77.5	77.5	77.5	77.5	77.5	77.5	77.5	77.5	77.5	77.5	77.5	77.5	77.5
≥ 18000		77.5	78.2	78.4	78.4	78.4	78.4	78.4	78.4	78.4	78.4	78.4	78.4	78.4	78.4	78.4	78.4
≥ 16000		77.6	78.4	78.5	78.5	78.5	78.5	78.5	78.5	78.5	78.5	78.5	78.5	78.5	78.5	78.5	78.5
≥ 14000		78.7	79.5	79.6	79.6	79.6	79.6	79.6	79.6	79.6	79.6	79.6	79.6	79.6	79.6	79.6	79.6
≥ 12000		77.9	80.6	80.7	80.7	80.7	80.7	80.7	80.7	80.7	80.7	80.7	80.7	80.7	80.7	80.7	80.7
≥ 10000		82.2	82.9	83.1	83.1	83.1	83.1	83.1	83.1	83.1	83.1	83.1	83.1	83.1	83.1	83.1	83.1
≥ 9000		82.6	83.3	83.4	83.4	83.4	83.4	83.4	83.4	83.4	83.4	83.4	83.4	83.4	83.4	83.4	83.4
≥ 8000		84.8	85.5	85.7	85.7	85.7	85.7	85.7	85.7	85.7	85.7	85.7	85.7	85.7	85.7	85.7	85.7
≥ 7000		84.8	85.5	85.7	85.7	85.7	85.7	85.7	85.7	85.7	85.7	85.7	85.7	85.7	85.7	85.7	85.7
≥ 6000		85.4	86.2	86.3	86.3	86.3	86.3	86.3	86.3	86.3	86.3	86.3	86.3	86.3	86.3	86.3	86.3
≥ 5000		87.1	88.6	88.8	88.8	88.8	88.8	88.8	88.8	88.8	88.8	88.8	88.8	88.8	88.8	88.8	88.8
≥ 4500		88.8	91.2	90.4	90.4	90.4	90.4	90.4	90.4	90.4	90.4	90.4	90.4	90.4	90.4	90.4	90.4
≥ 4000		91.0	92.6	92.8	93.0	93.0	93.0	93.0	93.0	93.0	93.0	93.0	93.0	93.0	93.0	93.0	93.0
≥ 3500		93.9	95.7	96.0	96.2	96.2	96.2	96.2	96.2	96.2	96.2	96.2	96.2	96.2	96.2	96.2	96.2
≥ 3000		95.9	97.8	98.3	98.4	98.5	98.5	98.5	98.5	98.5	98.5	98.5	98.5	98.5	98.5	98.5	98.5
≥ 2500		96.0	97.9	98.4	98.5	98.6	98.6	98.6	98.6	98.6	98.6	98.6	98.6	98.6	98.6	98.6	98.6
≥ 2000		96.2	98.0	98.5	98.6	98.8	98.8	98.8	98.8	98.8	98.8	98.8	98.8	98.8	98.8	98.8	98.8
≥ 1800		96.2	98.0	98.6	98.8	98.9	98.9	98.9	98.9	98.9	98.9	98.9	98.9	98.9	98.9	98.9	98.9
≥ 1500		96.5	98.5	99.1	99.3	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4
≥ 1200		96.8	98.8	99.4	99.5	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6
≥ 1000		96.9	98.9	99.5	99.6	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8
≥ 900		96.9	98.9	99.5	99.6	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8
≥ 800		96.9	98.9	99.5	99.6	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8
≥ 700		96.9	98.9	99.5	99.8	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 600		96.9	98.9	99.5	99.8	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 500		96.9	98.9	99.5	99.8	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 400		96.9	98.9	99.5	99.8	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 300		96.9	98.9	99.5	99.8	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 200		96.9	98.9	99.5	99.8	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 100		96.9	98.9	99.5	99.8	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 0		96.9	98.9	99.5	99.8	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TOTAL NUMBER OF OBSERVATIONS 809

JOINT CLIMATOLOGY BRANCH  
ETAC  
AT WEATHER SERVICE/MAC

# CEILING VERSUS VISIBILITY

24935 MATHER AFB CA

73-81

APP

STATION

STATION NAME

YEARS

MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)

1800-2000  
HOURS (L.S.T.)

CEILING (FEET)	VISIBILITY STATUTE MILES															
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2 1/2	≥ 2	≥ 1 1/2	≥ 1 1/4	≥ 1	≥ 3/4	≥ 1/2	≥ 1/4	≥ 1/8	≥ 1/16	≥ 0
NO CEILING		71.1	71.4	71.4	71.4	71.4	71.4	71.4	71.4	71.4	71.4	71.4	71.4	71.4	71.4	71.4
≥ 20000		77.7	78.0	78.0	78.0	78.0	78.0	78.0	78.0	78.0	78.0	78.0	78.0	78.0	78.0	78.0
≥ 18000		78.4	78.8	78.8	78.8	78.8	78.8	78.8	78.8	78.8	78.8	78.8	78.8	78.8	78.8	78.8
≥ 16000		78.6	79.0	79.0	79.0	79.0	79.0	79.0	79.0	79.0	79.0	79.0	79.0	79.0	79.0	79.0
≥ 14000		81.7	82.1	82.1	82.1	82.1	82.1	82.1	82.1	82.1	82.1	82.1	82.1	82.1	82.1	82.1
≥ 12000		84.0	84.3	84.3	84.3	84.3	84.3	84.3	84.3	84.3	84.3	84.3	84.3	84.3	84.3	84.3
≥ 10000		87.4	87.8	87.8	87.8	87.8	87.8	87.8	87.8	87.8	87.8	87.8	87.8	87.8	87.8	87.8
≥ 9000		87.8	88.1	88.1	88.1	88.1	88.1	88.1	88.1	88.1	88.1	88.1	88.1	88.1	88.1	88.1
≥ 8000		91.6	91.0	91.0	91.0	91.0	91.0	91.0	91.0	91.0	91.0	91.0	91.0	91.0	91.0	91.0
≥ 7000		91.2	91.0	91.6	91.6	91.6	91.6	91.6	91.6	91.6	91.6	91.6	91.6	91.6	91.6	91.6
≥ 6000		92.1	92.5	92.5	92.5	92.5	92.5	92.5	92.5	92.5	92.5	92.5	92.5	92.5	92.5	92.5
≥ 5000		93.8	94.2	94.3	94.3	94.3	94.3	94.3	94.3	94.3	94.3	94.3	94.3	94.3	94.3	94.3
≥ 4500		95.2	95.6	95.7	95.7	95.7	95.7	95.7	95.7	95.7	95.7	95.7	95.7	95.7	95.7	95.7
≥ 4000		95.9	96.3	96.4	96.4	96.4	96.4	96.4	96.4	96.4	96.4	96.4	96.4	96.4	96.4	96.4
≥ 3500		97.3	97.7	97.9	97.9	97.9	97.9	97.9	97.9	97.9	97.9	97.9	97.9	97.9	97.9	97.9
≥ 3000		98.3	98.6	99.1	99.1	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3
≥ 2500		98.6	99.0	99.5	99.5	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6
≥ 2000		98.9	99.3	99.8	99.8	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9
≥ 1800		99.9	99.3	99.8	99.8	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9
≥ 1500		99.9	99.3	99.8	99.8	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9
≥ 1200		99.9	99.3	99.8	99.8	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9
≥ 1000		99.9	99.4	99.9	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 900		99.9	99.4	99.9	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 800		99.9	99.4	99.9	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 700		99.9	99.4	99.9	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 600		99.9	99.4	99.9	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 500		99.9	99.4	99.9	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 400		99.9	99.4	99.9	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 300		99.9	99.4	99.9	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 200		99.9	99.4	99.9	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 100		99.9	99.4	99.9	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 0		99.9	99.4	99.9	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TOTAL NUMBER OF OBSERVATIONS 810

AIR FORCE ENVIRONMENTAL TECHNICAL APPLICATIONS CENTER--ETC F/G 4/2  
MATHER AFB, CALIFORNIA. REVISED UNIFORM SUMMARY OF SURFACE WEAT--ETC (1)

MATHER AFB, CALIFORNIA. REVISED UNIFORM SUMMARY OF SURFACE WEAT--ETC (11)

UNCLASSIFIED

USAFETAC/OS-82/033

581-AD-EB50 192

NL

3. 5

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GLOBAL CLIMATOLOGY BRANCH  
USAF ETAC  
AF WEATHER SERVICE/MAC

## CEILING VERSUS VISIBILITY

STATION TD4835 MATHER AFB CA

YEARS 73-81

MONTH APR

PERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)

2100-2300  
HOURS (L.S.T.)

CEILING (FEET)	VISIBILITY STATUTE MILES															
	≥10	≥6	≥5	≥4	≥3	≥2½	≥2	≥1½	≥1¼	≥1	¾	¾	¾	≥5/16	¾	≥0
NO CEILING		78.5	78.5	78.5	78.5	78.5	78.5	78.5	78.5	78.5	78.5	78.5	78.5	78.5	78.5	78.5
≥ 20000		81.7	81.7	81.7	81.7	81.7	81.7	81.7	81.7	81.7	81.7	81.7	81.7	81.7	81.7	81.7
≥ 18000		82.1	82.1	82.1	82.1	82.1	82.1	82.1	82.1	82.1	82.1	82.1	82.1	82.1	82.1	82.1
≥ 16000		82.3	82.3	82.3	82.3	82.3	82.3	82.3	82.3	82.3	82.3	82.3	82.3	82.3	82.3	82.3
≥ 14000		84.6	84.6	84.6	84.6	84.6	84.6	84.6	84.6	84.6	84.6	84.6	84.6	84.6	84.6	84.6
≥ 12000		87.2	87.2	87.2	87.2	87.2	87.2	87.2	87.2	87.2	87.2	87.2	87.2	87.2	87.2	87.2
≥ 10000		90.2	90.2	90.2	90.2	90.2	90.2	90.2	90.2	90.2	90.2	90.2	90.2	90.2	90.2	90.2
≥ 9000		90.2	90.4	90.4	90.4	90.4	90.4	90.4	90.4	90.4	90.4	90.4	90.4	90.4	90.4	90.4
≥ 8000		92.5	92.6	92.6	92.6	92.6	92.6	92.6	92.6	92.6	92.6	92.6	92.6	92.6	92.6	92.6
≥ 7000		93.6	93.7	93.7	93.7	93.7	93.7	93.7	93.7	93.7	93.7	93.7	93.7	93.7	93.7	93.7
≥ 6000		93.8	94.0	94.0	94.0	94.0	94.0	94.0	94.0	94.0	94.0	94.0	94.0	94.0	94.0	94.0
≥ 5000		95.8	95.9	95.9	95.9	95.9	95.9	95.9	95.9	95.9	95.9	95.9	95.9	95.9	95.9	95.9
≥ 4500		96.9	97.0	97.0	97.0	97.0	97.0	97.0	97.0	97.0	97.0	97.0	97.0	97.0	97.0	97.0
≥ 4000		98.1	98.1	98.1	98.1	98.1	98.1	98.1	98.1	98.1	98.1	98.1	98.1	98.1	98.1	98.1
≥ 3500		98.6	98.8	98.8	98.8	98.8	98.8	98.8	98.8	98.8	98.8	98.8	98.8	98.8	98.8	98.8
≥ 3000		99.4	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6
≥ 2500		99.6	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9
≥ 2000		99.6	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9
≥ 1800		99.6	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9
≥ 1500		99.8	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 1200		99.8	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 1000		99.8	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 900		99.8	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 800		99.8	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 700		99.8	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 600		99.8	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 500		99.8	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 400		99.8	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 300		99.8	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 200		99.8	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 100		99.8	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 0		99.8	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TOTAL NUMBER OF OBSERVATIONS 810



GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

## CEILING VERSUS VISIBILITY

224835 MATHER AFB CA

73-81

APP

STATION

STATION NAME

YEARS

NORTH

PERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)

ALL  
HOURS (L.S.T.)

CEILING (FEET)	VISIBILITY STATUTE MILES															
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1¼	≥ 1	≥ ¾	≥ ½	≥ ¼	≥ 3/16	≥ 1/8	≥ 0
NO CEILING		70.5	71.3	71.5	71.5	71.6	71.6	71.6	71.6	71.6	71.6	71.6	71.6	71.6	71.6	71.6
≥ 20000		76.6	77.6	77.8	77.9	77.9	77.9	77.9	77.9	77.9	77.9	77.9	77.9	77.9	78.0	78.0
≥ 18000		77.1	78.1	78.4	78.4	78.4	78.4	78.4	78.4	78.4	78.5	78.5	78.5	78.5	78.5	78.5
≥ 16000		77.2	78.2	78.5	78.5	78.5	78.5	78.5	78.5	78.5	78.6	78.6	78.6	78.6	78.6	78.6
≥ 14000		78.9	79.9	80.1	80.1	80.2	80.2	80.2	80.2	80.2	80.2	80.2	80.2	80.2	80.2	80.2
≥ 12000		80.5	81.5	81.7	81.8	81.8	81.8	81.8	81.8	81.8	81.8	81.8	81.8	81.8	81.8	81.8
≥ 10000		82.7	83.8	84.1	84.1	84.1	84.1	84.1	84.1	84.1	84.1	84.1	84.1	84.1	84.2	84.2
≥ 9000		83.2	84.3	84.5	84.6	84.6	84.6	84.6	84.6	84.6	84.6	84.6	84.6	84.6	84.6	84.6
≥ 8000		85.2	86.4	86.6	86.6	86.6	86.6	86.6	86.6	86.6	86.7	86.7	86.7	86.7	86.7	86.7
≥ 7000		85.8	86.9	87.1	87.2	87.2	87.2	87.2	87.2	87.2	87.2	87.2	87.2	87.2	87.2	87.2
≥ 6000		86.6	87.7	88.0	88.0	88.0	88.0	88.0	88.0	88.0	88.1	88.1	88.1	88.1	88.1	88.1
≥ 5000		88.3	89.6	89.8	89.9	89.9	89.9	89.9	89.9	89.9	89.9	89.9	89.9	89.9	89.9	89.9
≥ 4500		89.6	91.0	91.2	91.3	91.3	91.3	91.3	91.3	91.3	91.3	91.3	91.3	91.3	91.3	91.3
≥ 4000		91.4	92.8	93.0	93.1	93.1	93.1	93.1	93.1	93.1	93.2	93.2	93.2	93.2	93.2	93.2
≥ 3500		92.9	94.3	94.6	94.8	94.8	94.8	94.8	94.8	94.8	94.8	94.8	94.8	94.8	94.8	94.8
≥ 3000		95.1	96.6	97.0	97.2	97.3	97.3	97.3	97.3	97.3	97.3	97.3	97.3	97.3	97.3	97.3
≥ 2500		95.5	97.1	97.5	97.7	97.8	97.8	97.8	97.8	97.8	97.8	97.8	97.8	97.8	97.8	97.8
≥ 2000		95.9	97.6	98.0	98.2	98.3	98.3	98.3	98.3	98.3	98.3	98.3	98.3	98.3	98.3	98.3
≥ 1800		96.0	97.7	98.1	98.3	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.5	98.5
≥ 1500		96.5	98.3	98.7	99.0	99.1	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2
≥ 1200		96.7	98.5	99.0	99.3	99.4	99.4	99.4	99.4	99.5	99.5	99.5	99.5	99.5	99.5	99.5
≥ 1000		96.8	98.6	99.1	99.4	99.5	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6
≥ 900		96.9	98.7	99.2	99.5	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.7	99.7	99.7
≥ 800		96.9	98.7	99.2	99.6	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.8	99.8	99.8
≥ 700		97.0	98.8	99.3	99.7	99.8	99.8	99.8	99.8	99.9	99.9	99.9	99.9	99.9	99.9	99.9
≥ 600		97.0	98.8	99.3	99.7	99.8	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9
≥ 500		97.0	98.9	99.4	99.8	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 400		97.0	98.9	99.4	99.8	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 300		97.0	98.9	99.4	99.8	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 200		97.0	98.9	99.4	99.8	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 100		97.0	98.9	99.4	99.8	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 0		97.0	98.9	99.4	99.8	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TOTAL NUMBER OF OBSERVATIONS 6478

GLOBAL CLIMATOLOGY SPANCH  
KAPETAC  
AT WEATHER SERVICE/MAC

# CEILING VERSUS VISIBILITY

724835 MATHER AFB CA

73-81

MAY

STATION

STATION NAME

YEARS

MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)

0000-0200  
HOURS (L.S.T.)

CEILING (FEET)	VISIBILITY STATUTE MILES															
	≥10	≥6	≥5	≥4	≥3	≥2½	≥2	≥1½	≥1¼	≥1	¾	¾	¾	¾	≥5/16	≥¼
NO CEILING	88.5	88.6	88.6	88.6	88.6	88.6	88.6	88.6	88.6	88.6	88.6	88.6	88.6	88.6	88.6	88.6
≥ 20000	91.2	91.3	91.3	91.3	91.3	91.3	91.3	91.3	91.3	91.3	91.3	91.3	91.3	91.3	91.3	91.3
≥ 18000	91.3	91.4	91.4	91.4	91.4	91.4	91.4	91.4	91.4	91.4	91.4	91.4	91.4	91.4	91.4	91.4
≥ 16000	91.3	91.4	91.4	91.4	91.4	91.4	91.4	91.4	91.4	91.4	91.4	91.4	91.4	91.4	91.4	91.4
≥ 14000	92.1	92.2	92.2	92.2	92.2	92.2	92.2	92.2	92.2	92.2	92.2	92.2	92.2	92.2	92.2	92.2
≥ 12000	92.8	93.0	93.0	93.0	93.0	93.0	93.0	93.0	93.0	93.0	93.0	93.0	93.0	93.0	93.0	93.0
≥ 10000	94.1	94.3	94.3	94.3	94.3	94.3	94.3	94.3	94.3	94.3	94.3	94.3	94.3	94.3	94.3	94.3
≥ 9000	94.3	94.4	94.4	94.4	94.4	94.4	94.4	94.4	94.4	94.4	94.4	94.4	94.4	94.4	94.4	94.4
≥ 8000	95.8	95.9	95.9	95.9	95.9	95.9	95.9	95.9	95.9	95.9	95.9	95.9	95.9	95.9	95.9	95.9
≥ 7000	96.2	96.3	96.3	96.3	96.3	96.3	96.3	96.3	96.3	96.3	96.3	96.3	96.3	96.3	96.3	96.3
≥ 6000	96.7	96.8	96.8	96.8	96.8	96.8	96.8	96.8	96.8	96.8	96.8	96.8	96.8	96.8	96.8	96.8
≥ 5000	97.8	98.0	98.0	98.0	98.0	98.0	98.0	98.0	98.0	98.0	98.0	98.0	98.0	98.0	98.0	98.0
≥ 4500	98.1	98.2	98.2	98.2	98.2	98.2	98.2	98.2	98.2	98.2	98.2	98.2	98.2	98.2	98.2	98.2
≥ 4000	98.4	98.6	98.6	98.6	98.6	98.6	98.6	98.6	98.6	98.6	98.6	98.6	98.6	98.6	98.6	98.6
≥ 3500	98.4	98.6	98.6	98.6	98.6	98.6	98.6	98.6	98.6	98.6	98.6	98.6	98.6	98.6	98.6	98.6
≥ 3000	98.7	98.8	98.8	98.8	98.8	98.8	98.8	98.8	98.8	98.8	98.8	98.8	98.8	98.8	98.8	98.8
≥ 2500	98.7	98.8	98.8	98.8	98.8	98.8	98.8	98.8	98.8	98.8	98.8	98.8	98.8	98.8	98.8	98.8
≥ 2000	98.9	99.0	99.0	99.0	99.0	99.0	99.0	99.0	99.0	99.0	99.0	99.0	99.0	99.0	99.0	99.0
≥ 1800	98.9	99.0	99.0	99.0	99.0	99.0	99.0	99.0	99.0	99.0	99.0	99.0	99.0	99.0	99.0	99.0
≥ 1500	99.2	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3
≥ 1200	99.6	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8
≥ 1000	99.8	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9
≥ 900	99.8	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9
≥ 800	99.8	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9
≥ 700	99.8	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9
≥ 600	99.8	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 500	99.8	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 400	99.8	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 300	99.8	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 200	99.8	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 100	99.8	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 0	99.8	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TOTAL NUMBER OF OBSERVATIONS 837

CENTRAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

## CEILING VERSUS VISIBILITY

STATION 73-81  
STATION NAME MATHER AFB CA

73-81

MAY

PERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)

0300-0500  
HOURS (L.S.T.)

CEILING (FEET)	VISIBILITY STATUTE MILES															
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1¼	≥ 1	≥ ¾	≥ ½	≥ ¼	≥ 5/16	≥ ¼	≥ 0
NO CEILING		84.3	85.2	85.4	85.9	85.9	85.9	85.9	85.9	85.9	85.9	85.9	85.9	85.9	85.9	85.9
≥ 20000		87.3	88.2	88.5	89.0	89.0	89.0	89.0	89.0	89.0	89.0	89.0	89.0	89.0	89.0	89.0
≥ 18000		87.6	88.4	88.8	89.2	89.2	89.2	89.2	89.2	89.2	89.2	89.2	89.2	89.2	89.2	89.2
≥ 16000		87.6	88.4	88.8	89.2	89.2	89.2	89.2	89.2	89.2	89.2	89.2	89.2	89.2	89.2	89.2
≥ 14000		88.8	89.6	90.0	90.4	90.4	90.4	90.4	90.4	90.4	90.4	90.4	90.4	90.4	90.4	90.4
≥ 12000		90.6	91.4	91.8	92.2	92.2	92.2	92.2	92.2	92.2	92.2	92.2	92.2	92.2	92.2	92.2
≥ 10000		92.0	92.8	93.2	93.7	93.7	93.7	93.7	93.7	93.7	93.7	93.7	93.7	93.7	93.7	93.7
≥ 9500		92.0	92.8	93.2	93.7	93.7	93.7	93.7	93.7	93.7	93.7	93.7	93.7	93.7	93.7	93.7
≥ 8000		93.1	93.9	94.3	94.7	94.7	94.7	94.7	94.7	94.7	94.7	94.7	94.7	94.7	94.7	94.7
≥ 7000		93.3	94.1	94.5	95.0	95.0	95.0	95.0	95.0	95.0	95.0	95.0	95.0	95.0	95.0	95.0
≥ 6000		94.0	94.9	95.2	95.7	95.7	95.7	95.7	95.7	95.7	95.7	95.7	95.7	95.7	95.7	95.7
≥ 5000		95.1	95.9	96.3	96.8	96.8	96.8	96.8	96.8	96.8	96.8	96.8	96.8	96.8	96.8	96.8
≥ 4500		95.3	96.2	96.5	97.0	97.0	97.0	97.0	97.0	97.0	97.0	97.0	97.0	97.0	97.0	97.0
≥ 4000		96.1	96.9	97.3	97.7	97.7	97.7	97.7	97.7	97.7	97.7	97.7	97.7	97.7	97.7	97.7
≥ 3500		96.2	97.0	97.4	97.8	97.8	97.8	97.8	97.8	97.8	97.8	97.8	97.8	97.8	97.8	97.8
≥ 3000		96.3	97.1	97.5	98.0	98.0	98.0	98.0	98.0	98.0	98.0	98.0	98.0	98.0	98.0	98.0
≥ 2500		96.3	97.1	97.5	98.0	98.0	98.0	98.0	98.0	98.0	98.0	98.0	98.0	98.0	98.0	98.0
≥ 2000		96.3	97.1	97.5	98.0	98.0	98.0	98.0	98.0	98.0	98.0	98.0	98.0	98.0	98.0	98.0
≥ 1800		96.3	97.1	97.5	98.0	98.0	98.0	98.0	98.0	98.0	98.0	98.0	98.0	98.0	98.0	98.0
≥ 1500		96.4	97.3	97.6	98.1	98.1	98.1	98.1	98.1	98.1	98.1	98.1	98.1	98.1	98.1	98.1
≥ 1200		97.1	98.0	98.3	98.9	98.9	98.9	98.9	98.9	98.9	98.9	98.9	98.9	98.9	98.9	98.9
≥ 1000		97.5	98.3	98.7	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3
≥ 900		97.5	98.3	98.7	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3
≥ 800		97.8	98.7	99.0	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6
≥ 700		97.8	98.7	99.0	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6
≥ 600		97.8	99.0	99.4	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 500		97.8	99.0	99.4	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 400		97.8	99.0	99.4	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 300		97.8	99.0	99.4	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 200		97.8	99.0	99.4	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 100		97.8	99.0	99.4	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 0		97.8	99.0	99.4	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TOTAL NUMBER OF OBSERVATIONS 837

GLOBAL CLIMATOLOGY BRANCH  
USAF ETAC  
AIR WEATHER SERVICE/MAC

## CEILING VERSUS VISIBILITY

724835

MATHER AFB CA

73-81

MAY

STATION

STATION NAME

YEARS

MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)

0600-0800  
HOURS (L.S.T.)

CEILING (FEET)	VISIBILITY STATUTE MILES																
	≥10	≥6	≥5	≥4	≥3	≥2½	≥2	≥1½	≥1¼	≥1	¾	¾	¾	¾	≥5/16	≥¼	≥0
NO CEILING		78.4	81.0	81.6	81.8	81.8	82.0	82.0	82.0	82.0	82.0	82.0	82.0	82.0	82.0	82.0	82.0
≥ 20000		82.3	84.9	85.5	85.8	85.8	85.9	85.9	85.9	85.9	85.9	85.9	85.9	85.9	85.9	85.9	85.9
≥ 18000		82.7	85.3	85.9	86.1	86.1	86.3	86.3	86.3	86.3	86.3	86.3	86.3	86.3	86.3	86.3	86.3
≥ 16000		82.7	85.3	85.9	86.1	86.1	86.3	86.3	86.3	86.3	86.3	86.3	86.3	86.3	86.3	86.3	86.3
≥ 14000		84.7	87.3	88.1	88.3	88.3	88.4	88.4	88.4	88.4	88.4	88.4	88.4	88.4	88.4	88.4	88.4
≥ 12000		86.9	89.5	90.2	90.4	90.4	90.6	90.6	90.6	90.6	90.6	90.6	90.6	90.6	90.6	90.6	90.6
≥ 10000		88.2	90.8	91.6	91.9	91.9	92.0	92.0	92.0	92.0	92.0	92.0	92.0	92.0	92.0	92.0	92.0
≥ 9000		88.2	90.8	91.6	91.9	91.9	92.0	92.0	92.0	92.0	92.0	92.0	92.0	92.0	92.0	92.0	92.0
≥ 8000		89.5	92.1	93.0	93.2	93.2	93.3	93.3	93.3	93.3	93.3	93.3	93.3	93.3	93.3	93.3	93.3
≥ 7000		90.7	93.3	94.1	94.4	94.4	94.5	94.5	94.5	94.5	94.5	94.5	94.5	94.5	94.5	94.5	94.5
≥ 6000		91.0	93.7	94.5	94.7	94.7	94.9	94.9	94.9	94.9	94.9	94.9	94.9	94.9	94.9	94.9	94.9
≥ 5000		91.5	94.3	95.1	95.3	95.3	95.5	95.5	95.5	95.5	95.5	95.5	95.5	95.5	95.5	95.5	95.5
≥ 4500		91.8	94.5	95.3	95.6	95.6	95.7	95.7	95.7	95.7	95.7	95.7	95.7	95.7	95.7	95.7	95.7
≥ 4000		92.0	94.7	95.6	95.8	95.8	95.9	95.9	95.9	95.9	95.9	95.9	95.9	95.9	95.9	95.9	95.9
≥ 3500		92.4	95.1	95.9	96.2	96.2	96.3	96.3	96.3	96.3	96.3	96.3	96.3	96.3	96.3	96.3	96.3
≥ 3000		92.8	95.7	96.5	96.8	96.8	96.9	96.9	96.9	96.9	96.9	96.9	96.9	96.9	96.9	96.9	96.9
≥ 2500		93.1	95.9	96.8	97.0	97.0	97.1	97.1	97.1	97.1	97.1	97.1	97.1	97.1	97.1	97.1	97.1
≥ 2000		93.3	96.2	97.0	97.3	97.3	97.4	97.4	97.4	97.4	97.4	97.4	97.4	97.4	97.4	97.4	97.4
≥ 1800		93.3	96.2	97.0	97.3	97.3	97.4	97.4	97.4	97.4	97.4	97.4	97.4	97.4	97.4	97.4	97.4
≥ 1500		93.5	96.5	97.4	97.6	97.6	97.7	97.7	97.7	97.7	97.7	97.7	97.7	97.7	97.7	97.7	97.7
≥ 1200		94.1	97.4	98.2	98.4	98.4	98.6	98.6	98.6	98.6	98.6	98.6	98.6	98.6	98.6	98.6	98.6
≥ 1000		94.1	97.4	98.2	98.4	98.4	98.6	98.6	98.6	98.6	98.6	98.6	98.6	98.6	98.6	98.6	98.6
≥ 900		94.3	97.6	98.4	98.7	98.7	98.8	98.8	98.8	98.8	98.8	98.8	98.8	98.8	98.8	98.8	98.8
≥ 800		94.5	98.0	98.8	99.0	99.0	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2
≥ 700		94.7	98.2	99.0	99.4	99.4	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5
≥ 600		94.9	98.4	99.3	99.6	99.6	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8
≥ 500		94.9	98.4	99.3	99.8	99.8	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9
≥ 400		94.9	98.4	99.3	99.9	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 300		94.9	98.4	99.3	99.9	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 200		94.9	98.4	99.3	99.9	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 100		94.9	98.4	99.3	99.9	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
0		94.9	98.4	99.3	99.9	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TOTAL NUMBER OF OBSERVATIONS 837

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
ATTN: WEATHER SERVICE/MAC

## CEILING VERSUS VISIBILITY

724835  
STATION

MATHER AFB CA  
STATION NAME

73-81  
YEARS

MAY  
MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)

0900-1100  
HOURS (L.S.T.)

CEILING (FEET)	VISIBILITY STATUTE MILES															
	≥10	≥6	≥5	≥4	≥3	≥2½	≥2	≥1½	≥1¼	≥1	¾	¾	¾	¾	≥5/16	≥¼
NO CEILING		84.1	84.5	84.5	84.5	84.5	84.5	84.5	84.5	84.5	84.5	84.5	84.5	84.5	84.5	84.5
≥ 20000		89.2	89.4	89.4	89.4	89.4	89.4	89.4	89.4	89.4	89.4	89.4	89.4	89.4	89.4	89.4
≥ 18000		89.2	89.6	89.6	89.6	89.6	89.6	89.6	89.6	89.6	89.6	89.6	89.6	89.6	89.6	89.6
≥ 16000		89.2	89.6	89.6	89.6	89.6	89.6	89.6	89.6	89.6	89.6	89.6	89.6	89.6	89.6	89.6
≥ 14000		90.3	90.7	90.7	90.7	90.7	90.7	90.7	90.7	90.7	90.7	90.7	90.7	90.7	90.7	90.7
≥ 12000		91.0	91.4	91.4	91.4	91.4	91.4	91.4	91.4	91.4	91.4	91.4	91.4	91.4	91.4	91.4
≥ 10000		92.2	92.6	92.6	92.6	92.6	92.6	92.6	92.6	92.6	92.6	92.6	92.6	92.6	92.6	92.6
≥ 9000		92.5	92.8	92.8	92.8	92.8	92.8	92.8	92.8	92.8	92.8	92.8	92.8	92.8	92.8	92.8
≥ 8000		93.4	93.8	93.8	93.8	93.8	93.8	93.8	93.8	93.8	93.8	93.8	93.8	93.8	93.8	93.8
≥ 7000		93.8	94.1	94.1	94.1	94.1	94.1	94.1	94.1	94.1	94.1	94.1	94.1	94.1	94.1	94.1
≥ 6000		93.8	94.1	94.1	94.1	94.1	94.1	94.1	94.1	94.1	94.1	94.1	94.1	94.1	94.1	94.1
≥ 5000		95.5	95.9	96.1	96.1	96.1	96.1	96.2	96.2	96.2	96.2	96.2	96.2	96.2	96.2	96.2
≥ 4500		95.9	96.4	96.5	96.5	96.5	96.5	96.7	96.7	96.7	96.7	96.7	96.7	96.7	96.7	96.7
≥ 4000		96.9	97.4	97.5	97.5	97.5	97.5	97.6	97.6	97.6	97.6	97.6	97.6	97.6	97.6	97.6
≥ 3500		97.5	98.0	98.1	98.1	98.1	98.1	98.2	98.2	98.2	98.2	98.2	98.2	98.2	98.2	98.2
≥ 3000		97.8	98.3	98.4	98.4	98.4	98.4	98.6	98.6	98.6	98.6	98.6	98.6	98.6	98.6	98.6
≥ 2500		98.3	98.8	98.9	98.9	98.9	98.9	99.0	99.0	99.0	99.0	99.0	99.0	99.0	99.0	99.0
≥ 2000		98.4	98.9	99.2	99.2	99.2	99.2	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3
≥ 1800		98.6	99.2	99.4	99.4	99.4	99.4	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5
≥ 1500		98.8	99.4	99.6	99.6	99.6	99.6	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8
≥ 1200		98.9	99.5	99.8	99.8	99.8	99.8	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9
≥ 1000		98.9	99.5	99.8	99.8	99.8	99.8	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9
≥ 900		99.0	99.6	99.9	99.9	99.9	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 800		99.0	99.6	99.9	99.9	99.9	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 700		99.0	99.6	99.9	99.9	99.9	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 600		99.0	99.6	99.9	99.9	99.9	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 500		99.0	99.6	99.9	99.9	99.9	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 400		99.0	99.6	99.9	99.9	99.9	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 300		99.0	99.6	99.9	99.9	99.9	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 200		99.0	99.6	99.9	99.9	99.9	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 100		99.0	99.6	99.9	99.9	99.9	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 0		99.0	99.6	99.9	99.9	99.9	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TOTAL NUMBER OF OBSERVATIONS 837

GLOBAL CLIMATOLOGY BRANCH  
ETAC  
AIR WEATHER SERVICE/MAC

## CEILING VERSUS VISIBILITY

124835  
STATION

HATHER AFB CA  
STATION NAME

73-81  
YEARS

MAY  
MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)

1200-1400  
HOURS (L.S.T.)

CEILING (FEET)	VISIBILITY STATUTE MILES															
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1¼	≥ 1	≥ ¾	≥ ½	≥ ¼	≥ 5/16	≥ ¼	≥ 0
NO CEILING		82.1	87.1	82.1	82.1	82.1	82.1	82.1	82.1	82.1	82.1	82.1	82.1	82.1	82.1	82.1
≥ 20000		87.2	87.6	87.6	87.6	87.6	87.6	87.6	87.6	87.6	87.6	87.6	87.6	87.6	87.6	87.6
≥ 18000		87.6	87.9	87.9	87.9	87.9	87.9	87.9	87.9	87.9	87.9	87.9	87.9	87.9	87.9	87.9
≥ 16000		87.6	87.9	87.9	87.9	87.9	87.9	87.9	87.9	87.9	87.9	87.9	87.9	87.9	87.9	87.9
≥ 14000		88.8	89.1	89.1	89.1	89.1	89.1	89.1	89.1	89.1	89.1	89.1	89.1	89.1	89.1	89.1
≥ 12000		90.0	90.3	90.3	90.3	90.3	90.3	90.3	90.3	90.3	90.3	90.3	90.3	90.3	90.3	90.3
≥ 10000		90.7	91.0	91.0	91.0	91.0	91.0	91.0	91.0	91.0	91.0	91.0	91.0	91.0	91.0	91.0
≥ 9000		91.0	91.4	91.4	91.4	91.4	91.4	91.4	91.4	91.4	91.4	91.4	91.4	91.4	91.4	91.4
≥ 8000		91.4	91.8	91.8	91.8	91.8	91.8	91.8	91.8	91.8	91.8	91.8	91.8	91.8	91.8	91.8
≥ 7000		91.4	91.8	91.8	91.8	91.8	91.8	91.8	91.8	91.8	91.8	91.8	91.8	91.8	91.8	91.8
≥ 6000		91.4	91.8	91.8	91.8	91.8	91.8	91.8	91.8	91.8	91.8	91.8	91.8	91.8	91.8	91.8
≥ 5000		93.1	93.5	93.5	93.5	93.5	93.5	93.5	93.5	93.5	93.5	93.5	93.5	93.5	93.5	93.5
≥ 4500		93.9	94.4	94.4	94.4	94.4	94.4	94.4	94.4	94.4	94.4	94.4	94.4	94.4	94.4	94.4
≥ 4000		95.8	96.4	96.7	96.7	96.7	96.7	96.7	96.7	96.7	96.7	96.7	96.7	96.7	96.7	96.7
≥ 3500		97.3	97.8	98.1	98.1	98.1	98.1	98.1	98.1	98.1	98.1	98.1	98.1	98.1	98.1	98.1
≥ 3000		98.1	98.7	99.0	99.0	99.0	99.0	99.0	99.0	99.0	99.0	99.0	99.0	99.0	99.0	99.0
≥ 2500		98.2	98.8	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2
≥ 2000		98.4	99.0	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4
≥ 1800		98.4	99.0	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4
≥ 1500		98.7	99.3	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8
≥ 1200		98.9	99.5	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 1000		98.9	99.5	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 900		98.9	99.5	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 800		98.9	99.5	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 700		98.9	99.5	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 600		98.9	99.5	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 500		98.9	99.5	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 400		98.9	99.5	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 300		98.9	99.5	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 200		98.9	99.5	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 100		98.9	99.5	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 0		98.9	99.5	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TOTAL NUMBER OF OBSERVATIONS 837

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

# CEILING VERSUS VISIBILITY

72-835

MATHER AFB CA

73-81

MAY

STATION

STATION NAME

YEARS

MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)

1500-1700  
HOURS (L.S.T.)

CEILING (FEET)	VISIBILITY STATUTE MILES															
	≥10	≥6	≥5	≥4	≥3	≥2½	≥2	≥1½	≥1¼	≥1	¾	¾	¾	¾	≥5/16	≥¼
NO CEILING		81.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0
≥ 20000		88.3	88.3	88.3	88.3	88.3	88.3	88.3	88.3	88.3	88.3	88.3	88.3	88.3	88.3	88.3
≥ 18000		89.2	89.2	89.2	89.2	89.2	89.2	89.2	89.2	89.2	89.2	89.2	89.2	89.2	89.2	89.2
≥ 16000		89.2	89.2	89.2	89.2	89.2	89.2	89.2	89.2	89.2	89.2	89.2	89.2	89.2	89.2	89.2
≥ 14000		89.8	89.8	89.8	89.8	89.8	89.8	89.8	89.8	89.8	89.8	89.8	89.8	89.8	89.8	89.8
≥ 12000		90.9	90.9	90.9	90.9	90.9	90.9	90.9	90.9	90.9	90.9	90.9	90.9	90.9	90.9	90.9
≥ 10000		91.5	91.5	91.5	91.5	91.5	91.5	91.5	91.5	91.5	91.5	91.5	91.5	91.5	91.5	91.5
≥ 9000		92.0	92.0	92.0	92.0	92.0	92.0	92.0	92.0	92.0	92.0	92.0	92.0	92.0	92.0	92.0
≥ 8000		92.8	92.8	92.8	92.8	92.8	92.8	92.8	92.8	92.8	92.8	92.8	92.8	92.8	92.8	92.8
≥ 7000		93.1	93.1	93.1	93.1	93.1	93.1	93.1	93.1	93.1	93.1	93.1	93.1	93.1	93.1	93.1
≥ 6000		93.3	93.3	93.3	93.3	93.3	93.3	93.3	93.3	93.3	93.3	93.3	93.3	93.3	93.3	93.3
≥ 5000		95.3	95.3	95.3	95.3	95.3	95.3	95.3	95.3	95.3	95.3	95.3	95.3	95.3	95.3	95.3
≥ 4500		96.1	96.1	96.1	96.1	96.1	96.1	96.1	96.1	96.1	96.1	96.1	96.1	96.1	96.1	96.1
≥ 4000		97.8	97.8	97.8	97.8	97.8	97.8	97.8	97.8	97.8	97.8	97.8	97.8	97.8	97.8	97.8
≥ 3500		98.4	98.4	98.4	98.4	98.4	98.4	98.6	98.6	98.6	98.6	98.6	98.6	98.6	98.6	98.6
≥ 3000		99.5	99.5	99.6	99.6	99.6	99.6	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8
≥ 2500		99.5	99.5	99.6	99.6	99.6	99.6	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8
≥ 2000		99.5	99.5	99.6	99.6	99.6	99.6	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8
≥ 1800		99.5	99.5	99.6	99.6	99.6	99.6	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8
≥ 1500		99.5	99.5	99.6	99.6	99.6	99.6	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8
≥ 1200		99.8	99.8	99.9	99.9	99.9	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 1000		99.8	99.8	99.9	99.9	99.9	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 900		99.8	99.8	99.9	99.9	99.9	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 800		99.8	99.8	99.9	99.9	99.9	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 700		99.8	99.8	99.9	99.9	99.9	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 600		99.8	99.8	99.9	99.9	99.9	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 500		99.8	99.8	99.9	99.9	99.9	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 400		99.8	99.8	99.9	99.9	99.9	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 300		99.8	99.8	99.9	99.9	99.9	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 200		99.8	99.8	99.9	99.9	99.9	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 100		99.8	99.8	99.9	99.9	99.9	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 0		99.8	99.8	99.9	99.9	99.9	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TOTAL NUMBER OF OBSERVATIONS 857

GLOBAL CLIMATOLOGY BRANCH  
AFETAC  
AF WEATHER SERVICE/MAC

# CEILING VERSUS VISIBILITY

73-835  
STATION

KATHER AFB CA

STATION NAME

73-81

YEARS

MAY

MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)

1800-2000  
HOURS (L.S.T.)

CEILING (FEET)	VISIBILITY STATUTE MILES															
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1¼	≥ 1	≥ ¾	≥ ½	≥ ¼	≥ 1/16	≥ 0	≥ 0
NO CEILING		84.6	84.6	84.6	84.6	84.6	84.6	84.6	84.6	84.6	84.6	84.6	84.6	84.6	84.6	84.6
≥ 20000		90.6	90.6	90.6	90.6	90.6	90.6	90.6	90.6	90.6	90.6	90.6	90.6	90.6	90.6	90.6
≥ 18000		91.4	91.4	91.4	91.4	91.4	91.4	91.4	91.4	91.4	91.4	91.4	91.4	91.4	91.4	91.4
≥ 16000		91.4	91.4	91.4	91.4	91.4	91.4	91.4	91.4	91.4	91.4	91.4	91.4	91.4	91.4	91.4
≥ 14000		92.5	92.5	92.5	92.5	92.5	92.5	92.5	92.5	92.5	92.5	92.5	92.5	92.5	92.5	92.5
≥ 12000		93.3	93.3	93.3	93.3	93.3	93.3	93.3	93.3	93.3	93.3	93.3	93.3	93.3	93.3	93.3
≥ 10000		94.4	94.4	94.4	94.4	94.4	94.4	94.4	94.4	94.4	94.4	94.4	94.4	94.4	94.4	94.4
≥ 9000		94.7	94.7	94.7	94.7	94.7	94.7	94.7	94.7	94.7	94.7	94.7	94.7	94.7	94.7	94.7
≥ 8000		95.3	95.3	95.3	95.3	95.3	95.3	95.3	95.3	95.3	95.3	95.3	95.3	95.3	95.3	95.3
≥ 7000		95.6	95.6	95.6	95.6	95.6	95.6	95.6	95.6	95.6	95.6	95.6	95.6	95.6	95.6	95.6
≥ 6000		96.1	96.1	96.1	96.1	96.1	96.1	96.1	96.1	96.1	96.1	96.1	96.1	96.1	96.1	96.1
≥ 5000		97.1	97.1	97.1	97.1	97.1	97.1	97.1	97.1	97.1	97.1	97.1	97.1	97.1	97.1	97.1
≥ 4500		98.4	98.6	98.6	98.6	98.6	98.6	98.6	98.6	98.6	98.6	98.6	98.6	98.6	98.6	98.6
≥ 4000		98.9	98.9	98.9	98.9	98.9	98.9	98.9	98.9	98.9	98.9	98.9	98.9	98.9	98.9	98.9
≥ 3500		98.9	99.0	99.0	99.0	99.0	99.0	99.0	99.0	99.0	99.0	99.0	99.0	99.0	99.0	99.0
≥ 3000		99.6	99.8	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9
≥ 2500		99.6	99.8	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9
≥ 2000		99.8	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 1800		99.8	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 1500		99.8	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 1200		99.8	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 1000		99.8	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 900		99.8	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 800		99.8	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 700		99.8	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 600		99.8	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 500		99.8	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 400		99.8	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 300		99.8	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 200		99.8	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 100		99.8	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 0		99.8	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TOTAL NUMBER OF OBSERVATIONS 837



GLOBAL CLIMATOLOGY BRANCH  
AFETAC  
AF WEATHER SERVICE/MAC

## CEILING VERSUS VISIBILITY

73-835  
STATION

MATHER AFB CA  
STATION NAME

73-81  
YEARS

MAY  
MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)

2100-2300  
HOURS (L.S.T.)

CEILING (FEET)	VISIBILITY STATUTE MILES															
	≥10	≥6	≥5	≥4	≥3	≥2½	≥2	≥1½	≥1¼	≥1	≥¾	≥½	≥¼	≥5/16	≥¼	≥0
NO CEILING	97.8	97.8	97.8	97.8	97.8	97.8	97.8	97.8	97.8	97.8	97.8	97.8	97.8	97.8	97.8	97.8
≥20000	93.3	93.3	93.3	93.3	93.3	93.3	93.3	93.3	93.3	93.3	93.3	93.3	93.3	93.3	93.3	93.3
≥18000	93.5	93.5	93.5	93.5	93.5	93.5	93.5	93.5	93.5	93.5	93.5	93.5	93.5	93.5	93.5	93.5
≥16000	93.7	93.7	93.7	93.7	93.7	93.7	93.7	93.7	93.7	93.7	93.7	93.7	93.7	93.7	93.7	93.7
≥14000	94.3	94.3	94.3	94.3	94.3	94.3	94.3	94.3	94.3	94.3	94.3	94.3	94.3	94.3	94.3	94.3
≥12000	94.7	94.7	94.7	94.7	94.7	94.7	94.7	94.7	94.7	94.7	94.7	94.7	94.7	94.7	94.7	94.7
≥10000	96.2	96.2	96.2	96.2	96.2	96.2	96.2	96.2	96.2	96.2	96.2	96.2	96.2	96.2	96.2	96.2
≥9000	96.3	96.3	96.3	96.3	96.3	96.3	96.3	96.3	96.3	96.3	96.3	96.3	96.3	96.3	96.3	96.3
≥8000	96.9	96.9	96.9	96.9	96.9	96.9	96.9	96.9	96.9	96.9	96.9	96.9	96.9	96.9	96.9	96.9
≥7000	97.4	97.4	97.4	97.4	97.4	97.4	97.4	97.4	97.4	97.4	97.4	97.4	97.4	97.4	97.4	97.4
≥6000	97.7	97.7	97.7	97.7	97.7	97.7	97.7	97.7	97.7	97.7	97.7	97.7	97.7	97.7	97.7	97.7
≥5000	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4
≥4500	98.9	98.9	98.9	98.9	98.9	98.9	98.9	98.9	98.9	98.9	98.9	98.9	98.9	98.9	98.9	98.9
≥4000	99.1	99.1	99.0	99.0	99.0	99.0	99.0	99.0	99.0	99.0	99.0	99.0	99.0	99.0	99.0	99.0
≥3500	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2
≥3000	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4
≥2500	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4
≥2000	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9
≥1800	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥1500	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥1200	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥1000	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥900	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥800	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥700	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥600	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥500	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥400	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥300	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥200	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥100	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TOTAL NUMBER OF OBSERVATIONS 837

GLOBAL CLIMATOLOGY BRANCH  
AFETAC  
AIR WEATHER SERVICE/MAC

## CEILING VERSUS VISIBILITY

724835  
STATION

MATHER AFB CA  
STATION NAME

73-81  
YEARS

MAY  
MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)

ALL  
HOURS (L.S.T.)

CEILING (FEET)	VISIBILITY STATUTE MILES															
	≥10	≥6	≥5	≥4	≥3	≥2½	≥2	≥1½	≥1¼	≥1	¾	¾	¾	¾	≥5/16	≥¼
NO CEILING		84.1	84.6	84.7	84.8	84.8	84.8	84.8	84.8	84.8	84.8	84.8	84.8	84.8	84.8	84.8
≥ 20000		88.6	89.2	89.3	89.4	89.4	89.4	89.4	89.4	89.4	89.4	89.4	89.4	89.4	89.4	89.4
≥ 18000		89.1	89.6	89.7	89.8	89.8	89.8	89.8	89.8	89.8	89.8	89.8	89.8	89.8	89.8	89.8
≥ 16000		89.1	89.6	89.7	89.8	89.8	89.8	89.8	89.8	89.8	89.8	89.8	89.8	89.8	89.8	89.8
≥ 14000		90.2	90.7	90.8	90.9	90.9	90.9	90.9	90.9	90.9	90.9	90.9	90.9	90.9	90.9	90.9
≥ 12000		91.3	91.8	92.0	92.0	92.0	92.1	92.1	92.1	92.1	92.1	92.1	92.1	92.1	92.1	92.1
≥ 10000		92.4	93.7	93.1	93.2	93.2	93.2	93.2	93.2	93.2	93.2	93.2	93.2	93.2	93.2	93.2
≥ 9000		92.6	93.2	93.3	93.4	93.4	93.4	93.4	93.4	93.4	93.4	93.4	93.4	93.4	93.4	93.4
≥ 8000		93.5	94.1	94.2	94.3	94.3	94.3	94.3	94.3	94.3	94.3	94.3	94.3	94.3	94.3	94.3
≥ 7000		93.9	94.5	94.6	94.7	94.7	94.7	94.7	94.7	94.7	94.7	94.7	94.7	94.7	94.7	94.7
≥ 6000		94.3	94.8	94.9	95.0	95.0	95.0	95.0	95.0	95.0	95.0	95.0	95.0	95.0	95.0	95.0
≥ 5000		95.5	96.1	96.2	96.3	96.3	96.3	96.4	96.4	96.4	96.4	96.4	96.4	96.4	96.4	96.4
≥ 4500		96.1	96.7	96.8	96.9	96.9	96.9	96.9	96.9	96.9	96.9	96.9	96.9	96.9	96.9	96.9
≥ 4000		96.9	97.5	97.7	97.8	97.8	97.8	97.8	97.8	97.8	97.8	97.8	97.8	97.8	97.8	97.8
≥ 3500		97.3	97.9	98.1	98.2	98.2	98.2	98.2	98.2	98.2	98.2	98.2	98.2	98.2	98.2	98.2
≥ 3000		97.8	98.4	98.7	98.7	98.7	98.8	98.8	98.8	98.8	98.8	98.8	98.8	98.8	98.8	98.8
≥ 2500		97.9	98.5	98.8	98.9	98.9	98.9	98.9	98.9	98.9	98.9	98.9	98.9	98.9	98.9	98.9
≥ 2000		98.1	98.7	99.0	99.0	99.0	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1
≥ 1800		98.1	98.7	99.0	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1
≥ 1500		98.2	98.9	99.2	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3
≥ 1200		98.5	99.2	99.5	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6
≥ 1000		98.6	99.3	99.6	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7
≥ 900		98.6	99.3	99.6	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7
≥ 800		98.7	99.4	99.7	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8
≥ 700		98.7	99.4	99.7	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8
≥ 600		98.7	99.5	99.8	99.9	99.9	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 500		98.7	99.5	99.8	99.9	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 400		98.7	99.5	99.8	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 300		98.7	99.5	99.8	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 200		98.7	99.5	99.8	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 100		98.7	99.5	99.8	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 0		98.7	99.5	99.8	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TOTAL NUMBER OF OBSERVATIONS 6696

GLOBAL CLIMATOLOGY BRANCH  
USAF ETAC  
AIR WEATHER SERVICE/HAC

# CEILING VERSUS VISIBILITY

12 835 WATHER AFB CA

73-81

JUN

STATION STATION NAME

YEARS

MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)

10JC-0200  
HOURS (L.S.T.)

CEILING (FEET)	VISIBILITY STATUTE MILES															
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2 1/2	≥ 2	≥ 1 1/2	≥ 1 1/4	≥ 1	≥ 3/4	≥ 1/2	≥ 1/4	≥ 1/8	≥ 1/16	≥ 0
NO CEILING	92.2	92.2	92.2	92.2	92.2	92.2	92.2	92.2	92.2	92.2	92.2	92.2	92.2	92.2	92.2	92.2
≥ 20000	94.8	95.1	95.1	95.1	95.1	95.1	95.1	95.1	95.1	95.1	95.1	95.1	95.1	95.1	95.1	95.1
≥ 18000	94.8	95.1	95.1	95.1	95.1	95.1	95.1	95.1	95.1	95.1	95.1	95.1	95.1	95.1	95.1	95.1
≥ 16000	94.8	95.1	95.1	95.1	95.1	95.1	95.1	95.1	95.1	95.1	95.1	95.1	95.1	95.1	95.1	95.1
≥ 14000	96.3	96.3	96.3	96.3	96.3	96.3	96.3	96.3	96.3	96.3	96.3	96.3	96.3	96.3	96.3	96.3
≥ 12000	96.9	97.2	97.2	97.2	97.2	97.2	97.2	97.2	97.2	97.2	97.2	97.2	97.2	97.2	97.2	97.2
≥ 10000	98.3	98.3	98.3	98.3	98.3	98.3	98.3	98.3	98.3	98.3	98.3	98.3	98.3	98.3	98.3	98.3
≥ 9000	98.3	98.3	98.3	98.3	98.3	98.3	98.3	98.3	98.3	98.3	98.3	98.3	98.3	98.3	98.3	98.3
≥ 8000	98.3	98.3	98.3	98.3	98.3	98.3	98.3	98.3	98.3	98.3	98.3	98.3	98.3	98.3	98.3	98.3
≥ 7000	98.3	98.3	98.3	98.3	98.3	98.3	98.3	98.3	98.3	98.3	98.3	98.3	98.3	98.3	98.3	98.3
≥ 6000	98.9	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1
≥ 5000	98.9	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1
≥ 4500	98.9	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1
≥ 4000	98.9	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1
≥ 3500	98.9	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1
≥ 3000	98.9	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1
≥ 2500	99.1	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4
≥ 2000	99.3	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5
≥ 1800	99.3	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5
≥ 1600	99.3	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5
≥ 1400	99.3	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5
≥ 1200	99.3	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5
≥ 1000	99.4	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6
≥ 900	99.6	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9
≥ 800	99.6	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9
≥ 700	99.6	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 600	99.6	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 500	99.6	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 400	99.6	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 300	99.6	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 200	99.6	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 100	99.6	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 0	99.6	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TOTAL NUMBER OF OBSERVATIONS 809

GLOBAL CLIMATOLOGY BRANCH  
AFETAC  
AIR WEATHER SERVICE/MAC

## CEILING VERSUS VISIBILITY

724835  
STATION

MATHER AFB CA  
STATION NAME

73-81  
YEARS

JUN  
MONTH

### PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

0300-0500  
HOURS (L.S.T.)

CEILING (FEET)	VISIBILITY STATUTE MILES															
	≥10	≥6	≥5	≥4	≥3	≥2½	≥2	≥1½	≥1¼	≥1	≥¾	≥½	≥¼	≥3/16	≥¼	≥0
NO CEILING		86.2	86.5	86.8	86.8	86.8	86.8	86.8	86.8	86.8	86.8	86.8	86.8	86.8	86.8	86.8
≥ 20000		90.7	90.4	90.7	90.7	90.7	90.7	90.7	90.7	90.7	90.7	90.7	90.7	90.7	90.7	90.7
≥ 18000		90.7	90.4	90.7	90.7	90.7	90.7	90.7	90.7	90.7	90.7	90.7	90.7	90.7	90.7	90.7
≥ 16000		90.7	90.4	90.7	90.7	90.7	90.7	90.7	90.7	90.7	90.7	90.7	90.7	90.7	90.7	90.7
≥ 14000		91.7	92.1	92.5	92.5	92.5	92.5	92.5	92.5	92.5	92.5	92.5	92.5	92.5	92.5	92.5
≥ 12000		93.6	94.3	94.3	94.3	94.3	94.3	94.3	94.3	94.3	94.3	94.3	94.3	94.3	94.3	94.3
≥ 10000		95.1	95.4	95.8	95.8	95.8	95.8	95.8	95.8	95.8	95.8	95.8	95.8	95.8	95.8	95.8
≥ 9000		95.1	95.4	95.8	95.8	95.8	95.8	95.8	95.8	95.8	95.8	95.8	95.8	95.8	95.8	95.8
≥ 8000		95.3	95.7	96.0	96.0	96.0	96.0	96.0	96.0	96.0	96.0	96.0	96.0	96.0	96.0	96.0
≥ 7000		95.3	95.7	96.0	96.0	96.0	96.0	96.0	96.0	96.0	96.0	96.0	96.0	96.0	96.0	96.0
≥ 6000		95.8	96.2	96.5	96.5	96.5	96.5	96.5	96.5	96.5	96.5	96.5	96.5	96.5	96.5	96.5
≥ 5000		95.8	96.2	96.5	96.5	96.5	96.5	96.5	96.5	96.5	96.5	96.5	96.5	96.5	96.5	96.5
≥ 4500		95.9	96.3	96.7	96.7	96.7	96.7	96.7	96.7	96.7	96.7	96.7	96.7	96.7	96.7	96.7
≥ 4000		96.2	96.5	96.9	96.9	96.9	96.9	96.9	96.9	96.9	96.9	96.9	96.9	96.9	96.9	96.9
≥ 3500		96.3	96.7	97.0	97.0	97.0	97.0	97.0	97.0	97.0	97.0	97.0	97.0	97.0	97.0	97.0
≥ 3000		96.4	96.8	97.2	97.2	97.2	97.2	97.2	97.2	97.2	97.2	97.2	97.2	97.2	97.2	97.2
≥ 2500		96.4	96.8	97.2	97.2	97.2	97.2	97.2	97.2	97.2	97.2	97.2	97.2	97.2	97.2	97.2
≥ 2000		96.4	96.8	97.2	97.2	97.2	97.2	97.2	97.2	97.2	97.2	97.2	97.2	97.2	97.2	97.2
≥ 1800		96.7	97.2	97.5	97.5	97.5	97.5	97.5	97.5	97.5	97.5	97.5	97.5	97.5	97.5	97.5
≥ 1500		97.2	97.7	98.0	98.0	98.0	98.0	98.0	98.0	98.0	98.0	98.0	98.0	98.0	98.0	98.0
≥ 1200		97.8	98.3	98.6	98.6	98.6	98.6	98.6	98.6	98.6	98.6	98.6	98.6	98.6	98.6	98.6
≥ 1000		98.1	98.5	98.9	98.9	98.9	98.9	98.9	98.9	98.9	98.9	98.9	98.9	98.9	98.9	98.9
≥ 900		98.3	98.8	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1
≥ 800		98.8	99.4	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8
≥ 700		98.8	99.6	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 600		98.8	99.6	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 500		98.8	99.6	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 400		98.8	99.6	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 300		98.8	99.6	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 200		98.8	99.6	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 100		98.8	99.6	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 0		98.8	99.6	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TOTAL NUMBER OF OBSERVATIONS 810

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

## CEILING VERSUS VISIBILITY

124835 MATHEP AFB CA

73-81

JUN

STATION

STATION NAME

YEARS

MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)

3600-0800  
HOURS (L.S.T.)

CEILING (FEET)	VISIBILITY STATUTE MILES															
	≥10	≥6	≥5	≥4	≥3	≥2½	≥2	≥1½	≥1¼	≥1	¾	¾	¾	¾	≥5/16	≥¼
NO CEILING		43.1	64.	84.3	84.7	84.7	84.7	84.7	84.7	84.7	84.7	84.7	84.7	84.7	84.7	84.7
≥ 20000		37.7	87.9	88.3	88.6	88.6	88.6	88.6	88.6	88.6	88.6	88.6	88.6	88.6	88.6	88.6
≥ 18000		27.2	88.	88.4	88.8	88.8	88.8	88.8	88.8	88.8	88.8	88.8	88.8	88.8	88.8	88.8
≥ 16000		27.4	88.3	88.6	89.7	89.7	89.7	89.7	89.7	89.7	89.7	89.7	89.7	89.7	89.7	89.7
≥ 14000		29.8	91.6	91.0	91.4	91.4	91.4	91.4	91.4	91.4	91.4	91.4	91.4	91.4	91.4	91.4
≥ 12000		21.1	92.1	92.3	92.7	92.7	92.7	92.7	92.7	92.7	92.7	92.7	92.7	92.7	92.7	92.7
≥ 10000		22.7	93.6	94.0	94.3	94.3	94.3	94.3	94.3	94.3	94.3	94.3	94.3	94.3	94.3	94.3
≥ 9000		22.7	93.6	94.0	94.3	94.3	94.3	94.3	94.3	94.3	94.3	94.3	94.3	94.3	94.3	94.3
≥ 8000		23.3	94.2	94.6	94.9	94.9	94.9	94.9	94.9	94.9	94.9	94.9	94.9	94.9	94.9	94.9
≥ 7000		23.5	94.3	94.7	95.1	95.1	95.1	95.1	95.1	95.1	95.1	95.1	95.1	95.1	95.1	95.1
≥ 6000		23.8	94.7	95.1	95.4	95.4	95.4	95.4	95.4	95.4	95.4	95.4	95.4	95.4	95.4	95.4
≥ 5000		24.2	94.8	95.2	95.6	95.6	95.6	95.6	95.6	95.6	95.6	95.6	95.6	95.6	95.6	95.6
≥ 4500		24.3	94.8	95.2	95.6	95.6	95.6	95.6	95.6	95.6	95.6	95.6	95.6	95.6	95.6	95.6
≥ 4000		24.2	95.1	95.4	95.8	95.8	95.8	95.8	95.8	95.8	95.8	95.8	95.8	95.8	95.8	95.8
≥ 3500		24.4	95.3	95.7	96.0	96.0	96.0	96.0	96.0	96.0	96.0	96.0	96.0	96.0	96.0	96.0
≥ 3000		24.6	95.4	95.8	96.2	96.2	96.2	96.2	96.2	96.2	96.2	96.2	96.2	96.2	96.2	96.2
≥ 2500		24.8	95.7	96.0	96.4	96.4	96.4	96.4	96.4	96.4	96.4	96.4	96.4	96.4	96.4	96.4
≥ 2000		25.4	96.3	96.7	97.0	97.0	97.0	97.0	97.0	97.0	97.0	97.0	97.0	97.0	97.0	97.0
≥ 1800		25.4	96.3	96.7	97.0	97.0	97.0	97.0	97.0	97.0	97.0	97.0	97.0	97.0	97.0	97.0
≥ 1500		26.5	97.4	97.8	98.1	98.1	98.1	98.1	98.1	98.1	98.1	98.1	98.1	98.1	98.1	98.1
≥ 1200		27.4	98.3	98.6	99.0	99.0	99.0	99.0	99.0	99.0	99.0	99.0	99.0	99.0	99.0	99.0
≥ 1000		27.8	98.6	99.0	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4
≥ 900		28.1	99.1	99.5	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9
≥ 800		28.1	99.1	99.5	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9
≥ 700		28.3	99.3	99.6	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 600		28.3	99.3	99.6	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 500		28.3	99.3	99.6	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 400		28.3	99.3	99.6	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 300		28.3	99.3	99.6	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 200		28.3	99.3	99.6	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 100		28.3	99.3	99.6	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 0		28.3	99.3	99.6	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TOTAL NUMBER OF OBSERVATIONS 810

GLOBAL CLIMATOLOGY BRANCH  
USAF ETAC  
AIR WEATHER SERVICE/MAC

# CEILING VERSUS VISIBILITY

724835

MATHER AFB CA

73-81

JUN

STATION

STATION NAME

YEARS

MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)

0900-1100  
HOURS (L.S.T.)

CEILING (FEET)	VISIBILITY STATUTE MILES															
	≥10	≥6	≥5	≥4	≥3	≥2½	≥2	≥1½	≥1¼	≥1	¾	¾	¾	¾	≥5/16	≥¼
NO CEILING		89.1	89.4	89.6	89.6	89.6	89.6	89.6	89.6	89.6	89.6	89.6	89.6	89.6	89.6	89.6
≥20000		93.5	93.7	94.0	94.0	94.0	94.0	94.0	94.0	94.0	94.0	94.0	94.0	94.0	94.0	94.0
IV 18000		93.5	93.7	94.0	94.0	94.0	94.0	94.0	94.0	94.0	94.0	94.0	94.0	94.0	94.0	94.0
IV 16000		93.5	93.7	94.0	94.0	94.0	94.0	94.0	94.0	94.0	94.0	94.0	94.0	94.0	94.0	94.0
IV 14000		94.7	94.9	95.2	95.2	95.2	95.2	95.2	95.2	95.2	95.2	95.2	95.2	95.2	95.2	95.2
IV 12000		95.1	95.3	95.6	95.6	95.6	95.6	95.6	95.6	95.6	95.6	95.6	95.6	95.6	95.6	95.6
IV 10000		97.2	97.4	97.7	97.7	97.7	97.7	97.7	97.7	97.7	97.7	97.7	97.7	97.7	97.7	97.7
IV 9000		97.2	97.4	97.7	97.7	97.7	97.7	97.7	97.7	97.7	97.7	97.7	97.7	97.7	97.7	97.7
IV 8000		97.5	97.8	98.0	98.0	98.0	98.0	98.0	98.0	98.0	98.0	98.0	98.0	98.0	98.0	98.0
IV 7000		97.7	97.9	98.1	98.1	98.1	98.1	98.1	98.1	98.1	98.1	98.1	98.1	98.1	98.1	98.1
IV 6000		97.9	98.1	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4
IV 5000		97.9	98.1	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4
IV 4500		98.1	98.3	98.5	98.5	98.5	98.5	98.5	98.5	98.5	98.5	98.5	98.5	98.5	98.5	98.5
IV 4000		98.1	98.4	98.6	98.6	98.6	98.6	98.6	98.6	98.6	98.6	98.6	98.6	98.6	98.6	98.6
IV 3500		98.3	98.5	98.8	98.8	98.8	98.8	98.8	98.8	98.8	98.8	98.8	98.8	98.8	98.8	98.8
IV 3000		98.5	98.8	99.0	99.0	99.0	99.0	99.0	99.0	99.0	99.0	99.0	99.0	99.0	99.0	99.0
IV 2500		98.8	99.0	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3
IV 2000		99.1	99.4	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6
IV 1800		99.4	99.6	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9
IV 1500		99.5	99.8	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
IV 1200		99.5	99.8	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
IV 1000		99.5	99.8	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
IV 900		99.5	99.8	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
IV 800		99.5	99.8	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
IV 700		99.5	99.8	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
IV 600		99.5	99.8	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
IV 500		99.5	99.8	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
IV 400		99.5	99.8	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
IV 300		99.5	99.8	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
IV 200		99.5	99.8	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
IV 100		99.5	99.8	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
IV 0		99.5	99.8	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TOTAL NUMBER OF OBSERVATIONS 810

GLOBAL CLIMATOLOGY BRANCH  
USAF ETAC  
AIR WEATHER SERVICE/MAC

# CEILING VERSUS VISIBILITY

724835  
STATION

MATHER AFB CA  
STATION NAME

73-81  
YEARS

JUN  
MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)

1200-1400  
HOURS (L.S.T.)

CEILING (FEET)	VISIBILITY STATUTE MILES															
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1¼	≥ 1	≥ ¾	≥ ½	≥ ¼	≥ 5/16	≥ ¼	≥ 0
NO CEILING		98.3	88.5	88.8	88.8	93.8	88.8	88.8	88.8	88.8	88.8	88.8	88.8	88.8	88.8	88.8
≥ 20000		94.3	94.6	94.8	94.8	94.8	94.8	94.8	94.8	94.8	94.8	94.8	94.8	94.8	94.8	94.8
≥ 18000		94.9	95.2	95.4	95.4	95.4	95.4	95.4	95.4	95.4	95.4	95.4	95.4	95.4	95.4	95.4
≥ 16000		95.1	95.3	95.6	95.6	95.6	95.6	95.6	95.6	95.6	95.6	95.6	95.6	95.6	95.6	95.6
≥ 14000		96.3	96.5	96.8	96.8	96.8	96.8	96.8	96.8	96.8	96.8	96.8	96.8	96.8	96.8	96.8
≥ 12000		96.7	96.9	97.2	97.2	97.2	97.2	97.2	97.2	97.2	97.2	97.2	97.2	97.2	97.2	97.2
≥ 10000		97.9	98.1	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4
≥ 9000		97.9	98.1	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4
≥ 8000		98.0	98.2	98.5	98.5	98.5	98.5	98.5	98.5	98.5	98.5	98.5	98.5	98.5	98.5	98.5
≥ 7000		98.1	98.4	98.6	98.6	98.6	98.6	98.6	98.6	98.6	98.6	98.6	98.6	98.6	98.6	98.6
≥ 6000		98.3	98.5	98.8	98.8	98.8	98.8	98.8	98.8	98.8	98.8	98.8	98.8	98.8	98.8	98.8
≥ 5000		98.3	98.5	98.8	98.8	98.8	98.8	98.8	98.8	98.8	98.8	98.8	98.8	98.8	98.8	98.8
≥ 4500		98.6	98.9	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1
≥ 4000		99.2	99.3	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5
≥ 3500		99.3	99.5	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8
≥ 3000		99.5	99.8	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 2500		99.5	99.8	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 2000		99.5	99.8	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 1800		99.5	99.8	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 1500		99.5	99.8	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 1200		99.5	99.8	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 1000		99.5	99.8	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 900		99.5	99.8	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 800		99.5	99.8	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 700		99.5	99.8	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 600		99.5	99.8	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 500		99.5	99.8	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 400		99.5	99.8	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 300		99.5	99.8	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 200		99.5	99.8	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 100		99.5	99.8	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 0		99.5	99.8	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TOTAL NUMBER OF OBSERVATIONS 810

JOINT CLIMATOLOGY BRANCH  
AFETAC  
AIR WEATHER SERVICE/MAC

# CEILING VERSUS VISIBILITY

121935

MATHER AFB CA

73-81

JUN

STATION

STATION NAME

YEARS

MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)

1500-1700  
HOURS (L.S.T.)

CEILING (FEET)	VISIBILITY STATUTE MILES															
	≥10	≥6	≥5	≥4	≥3	≥2½	≥2	≥1½	≥1¼	≥1	¾	¾	¾	¾	≥5/16	≥¼
NO CEILING		87.8	87.9	88.1	88.1	88.1	88.1	88.1	88.1	88.1	88.1	88.1	88.1	88.1	88.1	88.1
≥ 20000		95.4	95.6	95.8	95.8	95.8	95.8	95.8	95.8	95.8	95.8	95.8	95.8	95.8	95.8	95.8
≥ 18000		96.3	96.4	96.7	96.7	96.7	96.7	96.7	96.7	96.7	96.7	96.7	96.7	96.7	96.7	96.7
≥ 16000		96.3	96.4	96.7	96.7	96.7	96.7	96.7	96.7	96.7	96.7	96.7	96.7	96.7	96.7	96.7
≥ 14000		96.8	96.9	97.2	97.2	97.2	97.2	97.2	97.2	97.2	97.2	97.2	97.2	97.2	97.2	97.2
≥ 12000		97.2	97.3	97.5	97.5	97.5	97.5	97.5	97.5	97.5	97.5	97.5	97.5	97.5	97.5	97.5
≥ 10000		97.8	97.9	98.1	98.1	98.1	98.1	98.1	98.1	98.1	98.1	98.1	98.1	98.1	98.1	98.1
≥ 9000		97.8	97.9	98.1	98.1	98.1	98.1	98.1	98.1	98.1	98.1	98.1	98.1	98.1	98.1	98.1
≥ 8000		97.9	98.0	98.3	98.3	98.3	98.3	98.3	98.3	98.3	98.3	98.3	98.3	98.3	98.3	98.3
≥ 7000		98.0	98.1	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4
≥ 6000		98.4	98.5	98.8	98.8	98.8	98.8	98.8	98.8	98.8	98.8	98.8	98.8	98.8	98.8	98.8
≥ 5000		98.9	99.0	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3
≥ 4500		98.9	99.0	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3
≥ 4000		99.1	99.3	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5
≥ 3500		99.3	99.4	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6
≥ 3000		99.6	99.8	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 2500		99.6	99.8	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 2000		99.6	99.8	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 1800		99.6	99.8	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 1500		99.6	99.8	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 1200		99.6	99.8	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 1000		99.6	99.8	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 900		99.6	99.8	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 800		99.6	99.8	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 700		99.6	99.8	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 600		99.6	99.8	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 500		99.6	99.8	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 400		99.6	99.8	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 300		99.6	99.8	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 200		99.6	99.8	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 100		99.6	99.8	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 0		99.6	99.8	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TOTAL NUMBER OF OBSERVATIONS 810



GLOBAL CLIMATOLOGY BRANCH  
USAF ETAC  
AL WEATHER SERVICE/MAC

# CEILING VERSUS VISIBILITY

12-835  
STATION

MATHER AFB CA  
STATION NAME

73-81  
YEARS

JUN  
MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)

1800-2000  
HOURS (L.S.T.)

CEILING (FEET)	VISIBILITY STATUTE MILES															
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1¼	≥ 1	≥ ¾	≥ ½	≥ ¼	≥ 5/16	≥ ¼	≥ 0
NO CEILING		88.6	88.6	88.6	88.6	88.6	88.6	88.6	88.6	88.6	88.6	88.6	88.6	88.6	88.6	88.6
≥ 20000		95.7	95.7	95.7	95.7	95.7	95.7	95.7	95.7	95.7	95.7	95.7	95.7	95.7	95.7	95.7
≥ 18000		95.7	95.7	95.7	95.7	95.7	95.7	95.7	95.7	95.7	95.7	95.7	95.7	95.7	95.7	95.7
≥ 16000		96.7	96.7	96.0	96.0	96.0	96.0	96.0	96.0	96.0	96.0	96.0	96.0	96.0	96.0	96.0
≥ 14000		96.7	96.7	96.7	96.7	96.7	96.7	96.7	96.7	96.7	96.7	96.7	96.7	96.7	96.7	96.7
≥ 12000		97.2	97.2	97.2	97.2	97.2	97.2	97.2	97.2	97.2	97.2	97.2	97.2	97.2	97.2	97.2
≥ 10000		98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4
≥ 9000		98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4
≥ 8000		99.0	99.0	99.0	99.0	99.0	99.0	99.0	99.0	99.0	99.0	99.0	99.0	99.0	99.0	99.0
≥ 7000		99.0	99.0	99.0	99.0	99.0	99.0	99.0	99.0	99.0	99.0	99.0	99.0	99.0	99.0	99.0
≥ 6000		99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8
≥ 5000		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 4500		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 4000		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 3500		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 3000		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 2500		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 2000		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 1800		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 1500		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 1200		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 1000		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 900		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 800		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 700		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 600		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 500		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 400		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 300		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 200		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 100		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 0		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TOTAL NUMBER OF OBSERVATIONS 809

GLOBAL CLIMATOLOGY BRANCH  
AF/ETAC  
AF WEATHER SERVICE/MAC

# CEILING VERSUS VISIBILITY

721835 MATHER AFB CA

73-81

JUN

STATION

STATION NAME

YEARS

MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)

2100-2300  
HOURS (L.S.T.)

CEILING (FEET)	VISIBILITY STATUTE MILES															
	≥10	≥6	≥5	≥4	≥3	≥2½	≥2	≥1½	≥1¼	≥1	¾	¾	¾	¾	≥5/16	≥0
NO CEILING		92.5	92.5	92.5	92.5	92.5	92.5	92.5	92.5	92.5	92.5	92.5	92.5	92.5	92.5	92.5
≥ 20000		95.3	95.3	95.3	95.3	95.3	95.3	95.3	95.3	95.3	95.3	95.3	95.3	95.3	95.3	95.3
≥ 18000		95.3	95.3	95.3	95.3	95.3	95.3	95.3	95.3	95.3	95.3	95.3	95.3	95.3	95.3	95.3
≥ 16000		95.3	95.3	95.3	95.3	95.3	95.3	95.3	95.3	95.3	95.3	95.3	95.3	95.3	95.3	95.3
≥ 14000		96.0	96.0	96.0	96.0	96.0	96.0	96.0	96.0	96.0	96.0	96.0	96.0	96.0	96.0	96.0
≥ 12000		96.4	96.4	96.4	96.4	96.4	96.4	96.4	96.4	96.4	96.4	96.4	96.4	96.4	96.4	96.4
≥ 10000		97.3	97.3	97.3	97.3	97.3	97.3	97.3	97.3	97.3	97.3	97.3	97.3	97.3	97.3	97.3
≥ 9000		97.3	97.3	97.3	97.3	97.3	97.3	97.3	97.3	97.3	97.3	97.3	97.3	97.3	97.3	97.3
≥ 8000		98.3	98.3	98.3	98.3	98.3	98.3	98.3	98.3	98.3	98.3	98.3	98.3	98.3	98.3	98.3
≥ 7000		98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4
≥ 6000		99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4
≥ 5000		99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8
≥ 4500		99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8
≥ 4000		99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8
≥ 3500		99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8
≥ 3000		99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8
≥ 2500		99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9
≥ 2000		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 1800		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 1500		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 1200		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 1000		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 900		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 800		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 700		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 600		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 500		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 400		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 300		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 200		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 100		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 0		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TOTAL NUMBER OF OBSERVATIONS 810

GLOBAL CLIMATOLOGY BRANCH  
USAF ETAC  
AF WEATHER SERVICE/MAC

## CEILING VERSUS VISIBILITY

720835  
STATION

WATHER AFB CA  
STATION NAME

73-81  
YEARS

JUN  
MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)

ALL  
HOURS (L.E.T.)

CEILING (FEET)	VISIBILITY STATUTE MILES															
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2 1/2	≥ 2	≥ 1 1/2	≥ 1 1/4	≥ 1	≥ 3/4	≥ 1/2	≥ 1/4	≥ 1/8	≥ 1/16	≥ 0
NO CEILING ≥ 20000	93.4 93.3	88.7 93.5	88.9 93.7	88.9 93.7	88.9 93.7	88.9 93.7	88.9 93.7	88.9 93.7	88.9 93.7	88.9 93.7	88.9 93.7	88.9 93.7	88.9 93.7	88.9 93.7	88.9 93.7	88.9 93.7
IV 18000	93.5	93.7	93.9	93.9	93.9	93.9	93.9	93.9	93.9	93.9	93.9	93.9	93.9	93.9	93.9	93.9
IV 16000	93.5	93.8	94.0	94.0	94.0	94.0	94.0	94.0	94.0	94.0	94.0	94.0	94.0	94.0	94.0	94.0
IV 14000	94.8	95.1	95.2	95.2	95.2	95.2	95.2	95.2	95.2	95.2	95.2	95.2	95.2	95.2	95.2	95.2
IV 12000	95.5	95.8	96.0	96.0	96.0	96.0	96.0	96.0	96.0	96.0	96.0	96.0	96.0	96.0	96.0	96.0
IV 10000	96.8	97.1	97.2	97.3	97.3	97.3	97.3	97.3	97.3	97.3	97.3	97.3	97.3	97.3	97.3	97.3
IV 9000	96.8	97.1	97.2	97.3	97.3	97.3	97.3	97.3	97.3	97.3	97.3	97.3	97.3	97.3	97.3	97.3
IV 8000	97.2	97.5	97.7	97.7	97.7	97.7	97.7	97.7	97.7	97.7	97.7	97.7	97.7	97.7	97.7	97.7
IV 7000	97.3	97.6	97.8	97.8	97.8	97.8	97.8	97.8	97.8	97.8	97.8	97.8	97.8	97.8	97.8	97.8
IV 6000	97.8	98.1	98.2	98.3	98.3	98.3	98.3	98.3	98.3	98.3	98.3	98.3	98.3	98.3	98.3	98.3
IV 5000	97.9	98.2	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4
IV 4500	98.1	98.3	98.5	98.5	98.5	98.5	98.5	98.5	98.5	98.5	98.5	98.5	98.5	98.5	98.5	98.5
IV 4000	98.2	98.4	98.6	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7
IV 3500	98.3	98.5	98.7	98.8	98.8	98.8	98.8	98.8	98.8	98.8	98.8	98.8	98.8	98.8	98.8	98.8
IV 3000	98.4	98.7	98.9	98.9	98.9	98.9	98.9	98.9	98.9	98.9	98.9	98.9	98.9	98.9	98.9	98.9
IV 2500	98.5	98.8	99.0	99.0	99.0	99.0	99.0	99.0	99.0	99.0	99.0	99.0	99.0	99.0	99.0	99.0
IV 2000	98.7	98.9	99.1	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2
IV 1800	98.7	99.1	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2
IV 1500	99.0	99.2	99.4	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5
IV 1200	99.1	99.4	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6
IV 1000	99.2	99.5	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7
IV 900	99.3	99.6	99.8	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9
IV 800	99.4	99.7	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9
IV 700	99.4	99.8	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
IV 600	99.4	99.8	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
IV 500	99.4	99.8	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
IV 400	99.4	99.8	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
IV 300	99.4	99.8	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
IV 200	99.4	99.8	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
IV 100	99.4	99.8	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
IV 0	99.4	99.8	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TOTAL NUMBER OF OBSERVATIONS 6478

GLOBAL CLIMATOLOGY BRANCH  
 ETAC  
 AIR WEATHER SERVICE/MAC

# CEILING VERSUS VISIBILITY

72-835

HATHER AFB CA

73-81

JUL

STATION

STATION NAME

YEARS

MONTH

## PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

0000-0200  
 HOURS (L.S.T.)

CEILING (FEET)	VISIBILITY STATUTE MILES															
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1¼	≥ 1	≥ ¾	≥ ½	≥ ¼	≥ 5/16	≥ ¼	≥ 0
NO CEILING		93.8	93.8	93.8	93.9	93.9	93.9	93.9	93.9	93.9	93.9	93.9	93.9	93.9	93.9	93.9
≥ 20000		94.6	94.6	94.6	94.7	94.7	94.7	94.7	94.7	94.7	94.7	94.7	94.7	94.7	94.7	94.7
≥ 18000		94.6	94.6	94.6	94.7	94.7	94.7	94.7	94.7	94.7	94.7	94.7	94.7	94.7	94.7	94.7
≥ 16000		95.1	95.1	95.1	95.2	95.2	95.2	95.2	95.2	95.2	95.2	95.2	95.2	95.2	95.2	95.2
≥ 14000		96.1	96.1	96.1	96.2	96.2	96.2	96.2	96.2	96.2	96.2	96.2	96.2	96.2	96.2	96.2
≥ 12000		98.1	98.1	98.1	98.2	98.2	98.2	98.2	98.2	98.2	98.2	98.2	98.2	98.2	98.2	98.2
≥ 10000		98.7	98.7	98.7	98.8	98.8	98.8	98.8	98.8	98.8	98.8	98.8	98.8	98.8	98.8	98.8
≥ 9000		98.7	98.7	98.7	98.8	98.8	98.8	98.8	98.8	98.8	98.8	98.8	98.8	98.8	98.8	98.8
≥ 8000		98.8	98.8	98.8	98.9	98.9	98.9	98.9	98.9	98.9	98.9	98.9	98.9	98.9	98.9	98.9
≥ 7000		98.8	98.8	98.8	98.9	98.9	98.9	98.9	98.9	98.9	98.9	98.9	98.9	98.9	98.9	98.9
≥ 6000		98.8	98.8	98.8	98.9	98.9	98.9	98.9	98.9	98.9	98.9	98.9	98.9	98.9	98.9	98.9
≥ 5000		98.9	98.9	98.9	99.0	99.0	99.0	99.0	99.0	99.0	99.0	99.0	99.0	99.0	99.0	99.0
≥ 4500		98.9	98.9	98.9	99.0	99.0	99.0	99.0	99.0	99.0	99.0	99.0	99.0	99.0	99.0	99.0
≥ 4000		98.9	98.9	98.9	99.0	99.0	99.0	99.0	99.0	99.0	99.0	99.0	99.0	99.0	99.0	99.0
≥ 3500		99.3	99.3	99.3	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4
≥ 3000		99.3	99.3	99.3	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4
≥ 2500		99.3	99.3	99.3	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4
≥ 2000		99.3	99.3	99.3	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4
≥ 1800		99.6	99.6	99.6	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8
≥ 1500		99.6	99.6	99.6	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8
≥ 1200		99.8	99.8	99.8	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9
≥ 1000		99.9	99.9	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 900		99.9	99.9	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 800		99.9	99.9	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 700		99.9	99.9	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 600		99.9	99.9	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 500		99.9	99.9	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 400		99.9	99.9	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 300		99.9	99.9	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 200		99.9	99.9	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 100		99.9	99.9	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 0		99.9	99.9	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TOTAL NUMBER OF OBSERVATIONS 837

GLOBAL CLIMATOLOGY BRANCH  
USAF ETAC  
AIR WEATHER SERVICE/MAC

# CEILING VERSUS VISIBILITY

704835

MATHER AFB CA

73-81

JUL

STATION

STATION NAME

YEARS

NORTH

PERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)

0300-0500  
HOURS (L.R.T.)

CEILING (FEET)	VISIBILITY STATUTE MILES																
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1¼	≥ 1	≥ ¾	≥ ½	≥ ¼	≥ 1/16	≥ 1/8	≥ 1/16	≥ 1/8
NO CEILING		91.8	92.7	92.1	92.1	92.1	92.1	92.1	92.1	92.1	92.1	92.1	92.1	92.1	92.1	92.1	92.1
≥ 20000		93.1	93.2	93.3	93.3	93.3	93.3	93.3	93.3	93.3	93.3	93.3	93.3	93.3	93.3	93.3	93.3
≥ 18000		93.4	93.7	93.8	93.8	93.8	93.8	93.8	93.8	93.8	93.8	93.8	93.8	93.8	93.8	93.8	93.8
≥ 16000		93.8	94.1	94.1	94.1	94.1	94.1	94.1	94.1	94.1	94.1	94.1	94.1	94.1	94.1	94.1	94.1
IV 14000		94.5	94.7	94.9	94.9	94.9	94.9	94.9	94.9	94.9	94.9	94.9	94.9	94.9	94.9	94.9	94.9
IV 12000		96.7	96.9	97.0	97.0	97.0	97.0	97.0	97.0	97.0	97.0	97.0	97.0	97.0	97.0	97.0	97.0
IV 10000		97.8	98.1	98.2	98.2	98.2	98.2	98.2	98.2	98.2	98.2	98.2	98.2	98.2	98.2	98.2	98.2
IV 9000		97.6	98.1	98.2	98.2	98.2	98.2	98.2	98.2	98.2	98.2	98.2	98.2	98.2	98.2	98.2	98.2
IV 8000		97.8	98.1	98.2	98.2	98.2	98.2	98.2	98.2	98.2	98.2	98.2	98.2	98.2	98.2	98.2	98.2
IV 7000		97.8	98.1	98.2	98.2	98.2	98.2	98.2	98.2	98.2	98.2	98.2	98.2	98.2	98.2	98.2	98.2
IV 6000		97.8	98.1	98.2	98.2	98.2	98.2	98.2	98.2	98.2	98.2	98.2	98.2	98.2	98.2	98.2	98.2
IV 5000		97.8	98.1	98.2	98.2	98.2	98.2	98.2	98.2	98.2	98.2	98.2	98.2	98.2	98.2	98.2	98.2
IV 4500		97.8	98.1	98.2	98.2	98.2	98.2	98.2	98.2	98.2	98.2	98.2	98.2	98.2	98.2	98.2	98.2
IV 4000		97.8	98.1	98.2	98.2	98.2	98.2	98.2	98.2	98.2	98.2	98.2	98.2	98.2	98.2	98.2	98.2
IV 3500		97.8	98.1	98.2	98.2	98.2	98.2	98.2	98.2	98.2	98.2	98.2	98.2	98.2	98.2	98.2	98.2
IV 3000		98.2	98.4	98.6	98.6	98.6	98.6	98.6	98.6	98.6	98.6	98.6	98.6	98.6	98.6	98.6	98.6
IV 2500		98.3	98.6	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7
IV 2000		98.3	98.6	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7
IV 1800		98.3	98.6	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7
IV 1500		98.3	98.6	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7
IV 1200		98.7	98.9	99.0	99.0	99.0	99.0	99.0	99.0	99.0	99.0	99.0	99.0	99.0	99.0	99.0	99.0
IV 1000		99.3	99.3	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4
IV 900		99.3	99.5	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6
IV 800		99.5	99.8	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9
IV 700		99.5	99.8	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9
IV 600		99.6	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
IV 500		99.6	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
IV 400		99.6	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
IV 300		99.6	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
IV 200		99.6	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
IV 100		99.6	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
IV 0		99.6	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TOTAL NUMBER OF OBSERVATIONS 837

GLOBAL CLIMATOLOGY BRANCH  
USAF ETAC  
AIR WEATHER SERVICE/MAC

## CEILING VERSUS VISIBILITY

730835  
STATION

MATHER AFB CA  
STATION NAME

73-81  
YEARS

JUL  
MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)

3600-0800  
HOURS (L.S.T.)

CEILING (FEET)	VISIBILITY STATUTE MILES															
	≥10	≥6	≥5	≥4	≥3	≥2½	≥2	≥1½	≥1¼	≥1	¾	¾	¾	¾	≥5/16	≥¼
NO CEILING		97.8	88.5	89.1	89.1	89.2	89.2	89.2	89.2	89.2	89.2	89.2	89.2	89.2	89.2	89.2
≥ 20000		89.4	90.3	90.7	90.7	90.8	90.8	90.8	90.8	90.8	90.8	90.8	90.8	90.8	90.8	90.8
≥ 18000		89.7	91.7	91.0	91.0	91.2	91.2	91.2	91.2	91.2	91.2	91.2	91.2	91.2	91.2	91.2
≥ 16000		91.3	91.3	91.6	91.6	91.8	91.8	91.8	91.8	91.8	91.8	91.8	91.8	91.8	91.8	91.8
≥ 14000		91.3	92.2	92.7	92.7	92.8	92.8	92.8	92.8	92.8	92.8	92.8	92.8	92.8	92.8	92.8
≥ 12000		93.1	94.1	94.5	94.5	94.6	94.6	94.6	94.6	94.6	94.6	94.6	94.6	94.6	94.6	94.6
≥ 10000		94.4	95.3	95.8	95.8	95.9	95.9	95.9	95.9	95.9	95.9	95.9	95.9	95.9	95.9	95.9
≥ 9000		94.4	95.3	95.8	95.8	95.9	95.9	95.9	95.9	95.9	95.9	95.9	95.9	95.9	95.9	95.9
≥ 8000		94.6	95.6	96.1	96.1	96.2	96.2	96.2	96.2	96.2	96.2	96.2	96.2	96.2	96.2	96.2
≥ 7000		94.6	95.6	96.1	96.1	96.2	96.2	96.2	96.2	96.2	96.2	96.2	96.2	96.2	96.2	96.2
≥ 6000		94.6	95.6	96.1	96.1	96.2	96.2	96.2	96.2	96.2	96.2	96.2	96.2	96.2	96.2	96.2
≥ 5000		94.9	95.8	96.5	96.5	96.7	96.7	96.7	96.7	96.7	96.7	96.7	96.7	96.7	96.7	96.7
≥ 4500		95.1	96.1	96.8	96.8	96.9	96.9	96.9	96.9	96.9	96.9	96.9	96.9	96.9	96.9	96.9
≥ 4000		95.1	96.1	96.8	96.8	96.9	96.9	96.9	96.9	96.9	96.9	96.9	96.9	96.9	96.9	96.9
≥ 3500		95.1	96.1	96.8	96.8	96.9	96.9	96.9	96.9	96.9	96.9	96.9	96.9	96.9	96.9	96.9
≥ 3000		95.1	96.1	96.8	96.8	96.9	96.9	96.9	96.9	96.9	96.9	96.9	96.9	96.9	96.9	96.9
≥ 2500		95.1	96.1	96.8	96.8	96.9	96.9	96.9	96.9	96.9	96.9	96.9	96.9	96.9	96.9	96.9
≥ 2000		95.1	96.1	96.8	96.8	96.9	96.9	96.9	96.9	96.9	96.9	96.9	96.9	96.9	96.9	96.9
≥ 1800		95.1	96.1	96.8	96.8	96.9	96.9	96.9	96.9	96.9	96.9	96.9	96.9	96.9	96.9	96.9
≥ 1500		95.8	96.8	97.5	97.5	97.6	97.6	97.6	97.6	97.6	97.6	97.6	97.6	97.6	97.6	97.6
≥ 1200		96.5	97.5	98.2	98.2	98.3	98.3	98.3	98.3	98.3	98.3	98.3	98.3	98.3	98.3	98.3
≥ 1000		96.9	97.8	98.6	98.6	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7
≥ 900		97.1	98.1	98.8	98.8	98.9	98.9	98.9	98.9	98.9	98.9	98.9	98.9	98.9	98.9	98.9
≥ 800		97.7	98.7	99.4	99.4	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5
≥ 700		98.0	98.9	99.8	99.8	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9
≥ 600		98.1	99.0	99.9	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 500		98.1	99.0	99.9	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 400		98.1	99.0	99.9	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 300		98.1	99.0	99.9	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 200		98.1	99.0	99.9	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 100		98.1	99.0	99.9	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 0		98.1	99.0	99.9	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TOTAL NUMBER OF OBSERVATIONS 837

CLIPAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

# CEILING VERSUS VISIBILITY

121835  
STATION

MATHER AFB CA  
STATION NAME

73-81  
YEARS

JUL  
MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)

0900-1100  
HOURS (L.E.T.)

CEILING (FEET)	VISIBILITY STATUTE MILES															
	≥10	≥6	≥5	≥4	≥3	≥2½	≥2	≥1½	≥1¼	≥1	¾	¾	¾	¾	¾	¾
NO CEILING		93.3	93.3	93.4	93.4	93.4	93.4	93.4	93.4	93.4	93.4	93.4	93.4	93.4	93.4	93.4
≥ 20000		94.6	94.6	94.7	94.7	94.7	94.7	94.7	94.7	94.7	94.7	94.7	94.7	94.7	94.7	94.7
≥ 18000		94.7	94.7	94.9	94.9	94.9	94.9	94.9	94.9	94.9	94.9	94.9	94.9	94.9	94.9	94.9
≥ 16000		94.7	94.7	94.9	94.9	94.9	94.9	94.9	94.9	94.9	94.9	94.9	94.9	94.9	94.9	94.9
≥ 14000		95.3	95.3	95.5	95.5	95.5	95.5	95.5	95.5	95.5	95.5	95.5	95.5	95.5	95.5	95.5
≥ 12000		96.5	96.5	96.7	96.7	96.7	96.7	96.7	96.7	96.7	96.7	96.7	96.7	96.7	96.7	96.7
≥ 10000		97.4	97.5	97.6	97.6	97.6	97.6	97.6	97.6	97.6	97.6	97.6	97.6	97.6	97.6	97.6
≥ 9000		97.4	97.5	97.6	97.6	97.6	97.6	97.6	97.6	97.6	97.6	97.6	97.6	97.6	97.6	97.6
≥ 8000		98.1	98.2	98.3	98.3	98.3	98.3	98.3	98.3	98.3	98.3	98.3	98.3	98.3	98.3	98.3
≥ 7000		98.1	98.2	98.3	98.3	98.3	98.3	98.3	98.3	98.3	98.3	98.3	98.3	98.3	98.3	98.3
≥ 6000		98.1	98.2	98.3	98.3	98.3	98.3	98.3	98.3	98.3	98.3	98.3	98.3	98.3	98.3	98.3
≥ 5000		98.3	98.7	98.8	98.8	98.8	98.8	98.8	98.8	98.8	98.8	98.8	98.8	98.8	98.8	98.8
≥ 4500		98.4	98.8	99.0	99.0	99.0	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2
≥ 4000		98.4	98.8	99.0	99.0	99.0	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2
≥ 3500		98.4	98.8	99.0	99.0	99.0	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2
≥ 3000		98.4	98.8	99.0	99.0	99.0	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2
≥ 2500		98.7	99.0	99.3	99.3	99.3	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4
≥ 2000		98.7	99.0	99.3	99.3	99.3	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4
≥ 1800		98.7	99.0	99.3	99.3	99.3	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4
≥ 1500		98.9	99.3	99.5	99.5	99.5	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6
≥ 1200		98.9	99.3	99.5	99.5	99.5	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6
≥ 1000		98.9	99.3	99.5	99.5	99.5	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6
≥ 900		99.3	99.6	99.9	99.9	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 800		99.3	99.6	99.9	99.9	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 700		99.3	99.6	99.9	99.9	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 600		99.3	99.6	99.9	99.9	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 500		99.3	99.6	99.9	99.9	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 400		99.3	99.6	99.9	99.9	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 300		99.3	99.6	99.9	99.9	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 200		99.3	99.6	99.9	99.9	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 100		99.3	99.6	99.9	99.9	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 0		99.3	99.6	99.9	99.9	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TOTAL NUMBER OF OBSERVATIONS 837

CLIMATE CLIMATOLOGY BRANCH  
AFETAC  
AIR WEATHER SERVICE/MAC

# CEILING VERSUS VISIBILITY

10835 MATHER AFB CA

73-81

JUL

STATION

STATION NAME

YEARS

MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)

1200-1400  
HOURS (L.S.T.)

CEILING (FEET)	VISIBILITY STATUTE MILES															
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2 1/2	≥ 2	≥ 1 1/2	≥ 1 1/4	≥ 1	≥ 3/4	≥ 1/2	≥ 1/4	≥ 1/8	≥ 1/16	≥ 0
NO CEILING	92.3	92.2	92.2	92.2	92.2	92.2	92.2	92.2	92.2	92.2	92.2	92.2	92.2	92.2	92.2	92.2
≥ 20000	95.3	95.3	95.3	95.3	95.3	95.3	95.3	95.3	95.3	95.3	95.3	95.3	95.3	95.3	95.3	95.3
≥ 18000	95.5	95.5	95.5	95.5	95.5	95.5	95.5	95.5	95.5	95.5	95.5	95.5	95.5	95.5	95.5	95.5
≥ 16000	95.5	95.5	95.5	95.5	95.5	95.5	95.5	95.5	95.5	95.5	95.5	95.5	95.5	95.5	95.5	95.5
≥ 14000	96.2	96.2	96.2	96.2	96.2	96.2	96.2	96.2	96.2	96.2	96.2	96.2	96.2	96.2	96.2	96.2
≥ 12000	96.8	96.8	96.8	96.8	96.8	96.8	96.8	96.8	96.8	96.8	96.8	96.8	96.8	96.8	96.8	96.8
≥ 10000	97.7	97.7	97.7	97.7	97.7	97.7	97.7	97.7	97.7	97.7	97.7	97.7	97.7	97.7	97.7	97.7
≥ 9000	97.7	97.7	97.7	97.7	97.7	97.7	97.7	97.7	97.7	97.7	97.7	97.7	97.7	97.7	97.7	97.7
≥ 8000	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4
≥ 7000	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4
≥ 6000	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4
≥ 5000	98.9	98.9	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2
≥ 4500	98.9	98.9	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3
≥ 4000	98.9	98.9	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3
≥ 3500	98.9	98.9	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3
≥ 3000	98.9	98.9	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3
≥ 2500	98.9	98.9	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3
≥ 2000	99.0	99.0	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4
≥ 1800	99.0	99.0	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4
≥ 1500	99.3	99.3	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6
≥ 1200	99.3	99.3	99.6	99.6	99.6	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8
≥ 1000	99.3	99.3	99.6	99.6	99.6	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8
≥ 900	99.3	99.3	99.6	99.8	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9
≥ 800	99.3	99.3	99.6	99.8	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9
≥ 700	99.3	99.3	99.6	99.8	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9
≥ 600	99.3	99.4	99.8	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 500	99.3	99.4	99.8	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 400	99.3	99.4	99.8	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 300	99.3	99.4	99.8	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 200	99.3	99.4	99.8	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 100	99.3	99.4	99.8	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 0	99.3	99.4	99.8	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TOTAL NUMBER OF OBSERVATIONS 836



GENERAL CLIMATOLOGY BRANCH  
USAF ETAC  
AIR WEATHER SERVICE/MAC

# CEILING VERSUS VISIBILITY

STATION 1435 WATHER AFB CA

73-81

JUL

STATION

STATION NAME

YEARS

MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)

1500-1700  
HOURS (L.S.T.)

CEILING (FEET)	VISIBILITY STATUTE MILES															
	≥ 0	≥ 1	≥ 2	≥ 3	≥ 4	≥ 5	≥ 6	≥ 7	≥ 8	≥ 9	≥ 10	≥ 11	≥ 12	≥ 13	≥ 14	≥ 15
NO CEILING ≥ 20000	95.7	95.8	95.8	95.8	95.8	95.8	95.8	95.8	95.8	95.8	95.8	95.8	95.8	95.8	95.8	95.8
≥ 18000 ≥ 6000	95.7	95.8	95.8	95.8	95.8	95.8	95.8	95.8	95.8	95.8	95.8	95.8	95.8	95.8	95.8	95.8
≥ 14000 ≥ 2000	96.2	96.3	96.3	96.3	96.3	96.3	96.3	96.3	96.3	96.3	96.3	96.3	96.3	96.3	96.3	96.3
≥ 10000 ≥ 9000	97.6	97.7	97.7	97.7	97.7	97.7	97.7	97.7	97.7	97.7	97.7	97.7	97.7	97.7	97.7	97.7
≥ 8000 ≥ 7000	98.3	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4
≥ 6000 ≥ 5000	98.4	98.6	98.6	98.6	98.6	98.6	98.6	98.6	98.6	98.6	98.6	98.6	98.6	98.6	98.6	98.6
≥ 4500 ≥ 4000	99.2	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3
≥ 3500 ≥ 3000	99.3	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5
≥ 2500 ≥ 2000	99.5	99.8	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9
≥ 1800 ≥ 1500	99.6	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 1200 ≥ 1000	99.6	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 900 ≥ 800	99.6	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 700 ≥ 600	99.6	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 500 ≥ 400	99.6	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 300 ≥ 200	99.6	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 100 ≥ 0	99.6	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TOTAL NUMBER OF OBSERVATIONS 836

GLOBAL CLIMATOLOGY BRANCH  
AFETAC  
AIR WEATHER SERVICE/MAC

# CEILING VERSUS VISIBILITY

124835 MATHER AFB CA

73-81

JUL

STATION

STATION NAME

YEARS

MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)

1800-2000  
HOURS (L.S.T.)

CEILING (FEET)	VISIBILITY: STATUTE MILES															
	≥10	≥6	≥5	≥4	≥3	≥2½	≥2	≥1½	≥1¼	≥1	¾	¾	¾	¾	¾	≥0
NO CEILING		92.1	92.1	92.1	92.1	92.1	92.1	92.1	92.1	92.1	92.1	92.1	92.1	92.1	92.1	92.1
≥20000		95.9	95.9	95.9	95.9	95.9	95.9	95.9	95.9	95.9	95.9	95.9	95.9	95.9	95.9	95.9
≥18000		95.9	95.9	95.9	95.9	95.9	95.9	95.9	95.9	95.9	95.9	95.9	95.9	95.9	95.9	95.9
≥16000		95.9	95.9	95.9	95.9	95.9	95.9	95.9	95.9	95.9	95.9	95.9	95.9	95.9	95.9	95.9
≥14000		96.5	96.5	96.5	96.5	96.5	96.5	96.5	96.5	96.5	96.5	96.5	96.5	96.5	96.5	96.5
≥12000		96.9	96.9	96.9	96.9	96.9	96.9	96.9	96.9	96.9	96.9	96.9	96.9	96.9	96.9	96.9
≥10000		97.8	97.8	98.0	98.0	98.0	98.0	98.0	98.0	98.0	98.0	98.0	98.0	98.0	98.0	98.0
≥9000		98.0	98.0	98.1	98.1	98.1	98.1	98.1	98.1	98.1	98.1	98.1	98.1	98.1	98.1	98.1
≥8000		98.6	98.6	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7
≥7000		98.7	98.7	98.8	98.8	98.8	98.8	98.8	98.8	98.8	98.8	98.8	98.8	98.8	98.8	98.8
≥6000		98.9	98.9	99.0	99.0	99.0	99.0	99.0	99.0	99.0	99.0	99.0	99.0	99.0	99.0	99.0
≥5000		99.8	99.8	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9
≥4500		99.8	99.8	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9
≥4000		99.8	99.8	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9
≥3500		99.8	99.8	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9
≥3000		99.8	99.8	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9
≥2500		99.8	99.8	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9
≥2000		99.8	99.8	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9
≥1800		99.8	99.8	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9
≥1500		99.8	99.8	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9
≥1200		99.8	99.8	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9
≥1000		99.8	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥900		99.8	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥800		99.8	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥700		99.8	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥600		99.8	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥500		99.8	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥400		99.8	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥300		99.8	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥200		99.8	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥100		99.8	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥0		99.8	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TOTAL NUMBER OF OBSERVATIONS 837

CLIMATE CLIMATOLOGY BRANCH  
 USAF ETAC  
 AIR WEATHER SERVICE/MAC

# CEILING VERSUS VISIBILITY

STATION 14-835 MATHER AFB CA

73-81

JUL

PERCENTAGE FREQUENCY OF OCCURRENCE  
 (FROM HOURLY OBSERVATIONS)

2100-2300  
 HOURS (L.S.T.)

CEILING (FEET)	VISIBILITY STATUTE MILES															
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2 1/2	≥ 2	≥ 1 1/2	≥ 1 1/4	≥ 1	≥ 3/4	≥ 1/2	≥ 1/4	≥ 1/8	≥ 1/16	≥ 0
NO CEILING ≥ 20000	94.4	94.4	94.4	94.4	94.4	94.4	94.4	94.4	94.4	94.4	94.4	94.4	94.4	94.4	94.4	94.4
IV 18000	96.8	96.8	96.8	96.8	96.8	96.8	96.8	96.8	96.8	96.8	96.8	96.8	96.8	96.8	96.8	96.8
IV 16000	97.1	97.1	97.1	97.1	97.1	97.1	97.1	97.1	97.1	97.1	97.1	97.1	97.1	97.1	97.1	97.1
IV 14000	97.4	97.4	97.4	97.4	97.4	97.4	97.4	97.4	97.4	97.4	97.4	97.4	97.4	97.4	97.4	97.4
IV 12000	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4
IV 10000	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7
IV 9000	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7
IV 8000	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3
IV 7000	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3
IV 6000	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5
IV 5000	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6
IV 4500	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6
IV 4000	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6
IV 3500	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6
IV 3000	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9
IV 2500	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9
IV 2000	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9
IV 1800	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9
IV 1500	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9
IV 1200	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9
IV 1000	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
IV 900	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
IV 800	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
IV 700	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
IV 600	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
IV 500	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
IV 400	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
IV 300	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
IV 200	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
IV 100	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
IV 0	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TOTAL NUMBER OF OBSERVATIONS 837

CLIMATE CLIMATOLOGY BRANCH  
USAF ETAC  
AIR WEATHER SERVICE/MAC

## CEILING VERSUS VISIBILITY

73-835  
STATION

MATHER AFB CA  
STATION NAME

73-81  
YEARS

JUL  
MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)

ALL  
HOURS (L.S.T.)

CEILING (FEET)	VISIBILITY STATUTE MILES															
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1¼	≥ 1	≥ ¾	≥ ½	≥ ¼	≥ 5/16	≥ ¼	≥ 0
NO CEILING		92.2	92.3	92.4	92.4	92.4	92.4	92.4	92.4	92.4	92.4	92.4	92.4	92.4	92.4	92.4
≥ 20000		94.4	94.6	94.7	94.7	94.7	94.7	94.7	94.7	94.7	94.7	94.7	94.7	94.7	94.7	94.7
≥ 18000		94.5	94.7	94.8	94.8	94.8	94.8	94.8	94.8	94.8	94.8	94.8	94.8	94.8	94.8	94.8
≥ 16000		94.8	94.9	95.0	95.0	95.0	95.0	95.0	95.0	95.0	95.0	95.0	95.0	95.0	95.0	95.0
≥ 14000		95.4	95.6	95.7	95.7	95.7	95.7	95.7	95.7	95.7	95.7	95.7	95.7	95.7	95.7	95.7
≥ 12000		96.7	96.8	96.9	96.9	96.9	96.9	96.9	96.9	96.9	96.9	96.9	96.9	96.9	96.9	96.9
≥ 10000		97.5	97.7	97.8	97.8	97.8	97.8	97.8	97.8	97.8	97.8	97.8	97.8	97.8	97.8	97.8
≥ 9000		97.6	97.7	97.8	97.8	97.9	97.9	97.9	97.9	97.9	97.9	97.9	97.9	97.9	97.9	97.9
≥ 8000		98.0	98.2	98.3	98.3	98.3	98.3	98.3	98.3	98.3	98.3	98.3	98.3	98.3	98.3	98.3
≥ 7000		98.0	98.2	98.3	98.3	98.3	98.3	98.3	98.3	98.3	98.3	98.3	98.3	98.3	98.3	98.3
≥ 6000		98.1	98.3	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4
≥ 5000		98.4	98.6	98.8	98.8	98.8	98.8	98.8	98.8	98.8	98.8	98.8	98.8	98.8	98.8	98.8
≥ 4500		98.4	98.7	98.9	98.9	98.9	98.9	98.9	98.9	98.9	98.9	98.9	98.9	98.9	98.9	98.9
≥ 4000		98.5	98.7	98.9	98.9	98.9	99.0	99.0	99.0	99.0	99.0	99.0	99.0	99.0	99.0	99.0
≥ 3500		98.5	98.8	99.0	99.0	99.0	99.0	99.0	99.0	99.0	99.0	99.0	99.0	99.0	99.0	99.0
≥ 3000		98.6	98.8	99.0	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1
≥ 2500		98.7	98.9	99.1	99.1	99.1	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2
≥ 2000		98.7	98.9	99.1	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2
≥ 1800		98.8	99.0	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2
≥ 1500		98.9	99.1	99.3	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4
≥ 1200		99.1	99.3	99.5	99.5	99.5	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6
≥ 1000		99.2	99.4	99.6	99.6	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7
≥ 900		99.3	99.5	99.7	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8
≥ 800		99.4	99.6	99.8	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9
≥ 700		99.4	99.7	99.9	99.9	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 600		99.4	99.7	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 500		99.4	99.7	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 400		99.4	99.7	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 300		99.4	99.7	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 200		99.4	99.7	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 100		99.4	99.7	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 0		99.4	99.7	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TOTAL NUMBER OF OBSERVATIONS 6694

GLOBAL CLIMATOLOGY BRANCH  
 AFETAC  
 AIR WEATHER SERVICE/MAC

# CEILING VERSUS VISIBILITY

0835 MATHER AFB CA 73-81 AUG  
 STATION STATION NAME YEARS MONTH  
 0000-0200  
 HOURS (L.S.T.)

## PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

CEILING (FEET)	VISIBILITY STATUTE MILES															
	≥10	≥6	≥5	≥4	≥3	≥2½	≥2	≥1½	≥1¼	≥1	¾	¾	¾	≥3/16	¾	≥0
NO CEILING		92.7	92.7	92.7	92.7	92.7	92.7	92.7	92.7	92.7	92.7	92.7	92.7	92.7	92.7	92.7
≥ 20000		94.0	94.0	94.0	94.0	94.0	94.0	94.0	94.0	94.0	94.0	94.0	94.0	94.0	94.0	94.0
≥ 18000		94.0	94.0	94.0	94.0	94.0	94.0	94.0	94.0	94.0	94.0	94.0	94.0	94.0	94.0	94.0
≥ 16000		94.0	94.0	94.0	94.0	94.0	94.0	94.0	94.0	94.0	94.0	94.0	94.0	94.0	94.0	94.0
≥ 14000		95.0	95.0	95.0	95.0	95.0	95.0	95.0	95.0	95.0	95.0	95.0	95.0	95.0	95.0	95.0
≥ 12000		95.9	95.9	95.9	95.9	95.9	95.9	95.9	95.9	95.9	95.9	95.9	95.9	95.9	95.9	95.9
≥ 10000		96.8	96.8	96.8	96.8	96.8	96.8	96.8	96.8	96.8	96.8	96.8	96.8	96.8	96.8	96.8
≥ 9000		96.8	96.8	96.8	96.8	96.8	96.8	96.8	96.8	96.8	96.8	96.8	96.8	96.8	96.8	96.8
≥ 8000		97.3	97.3	97.3	97.3	97.3	97.3	97.3	97.3	97.3	97.3	97.3	97.3	97.3	97.3	97.3
≥ 7000		97.5	97.5	97.5	97.5	97.5	97.5	97.5	97.5	97.5	97.5	97.5	97.5	97.5	97.5	97.5
≥ 6000		97.5	97.5	97.5	97.5	97.5	97.5	97.5	97.5	97.5	97.5	97.5	97.5	97.5	97.5	97.5
≥ 5000		98.2	98.2	98.2	98.2	98.2	98.2	98.2	98.2	98.2	98.2	98.2	98.2	98.2	98.2	98.2
≥ 4500		98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4
≥ 4000		98.9	98.9	98.9	98.9	98.9	98.9	98.9	98.9	98.9	98.9	98.9	98.9	98.9	98.9	98.9
≥ 3500		99.0	99.0	99.0	99.0	99.0	99.0	99.0	99.0	99.0	99.0	99.0	99.0	99.0	99.0	99.0
≥ 3000		99.0	99.0	99.0	99.0	99.0	99.0	99.0	99.0	99.0	99.0	99.0	99.0	99.0	99.0	99.0
≥ 2500		99.0	99.0	99.0	99.0	99.0	99.0	99.0	99.0	99.0	99.0	99.0	99.0	99.0	99.0	99.0
≥ 2000		99.0	99.0	99.0	99.0	99.0	99.0	99.0	99.0	99.0	99.0	99.0	99.0	99.0	99.0	99.0
≥ 1800		99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2
≥ 1500		99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5
≥ 1200		99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8
≥ 1000		99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 900		99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 800		99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 700		99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 600		99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 500		99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 400		99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 300		99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 200		99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 100		99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 0		99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TOTAL NUMBER OF OBSERVATIONS 837

GLOBAL CLIMATOLOGY BRANCH  
USAF ETAC  
AF WEATHER SERVICE/MAC

# CEILING VERSUS VISIBILITY

724835 MATHER AFB CA

73-81

AUG

STATION

STATION NAME

YEARS

MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)

0300-0500  
HOURS (L.S.T.)

CEILING (FEET)	VISIBILITY STATUTE MILES															
	≥10	≥6	≥5	≥4	≥3	≥2½	≥2	≥1½	≥1¼	≥1	¾	¾	¾	≥5/16	¾	≥0
NO CEILING		89.1	87.6	97.0	97.1	90.1	97.1	90.1	90.1	90.1	97.1	90.1	90.1	97.1	90.1	90.1
≥ 20000		91.1	90.6	90.9	91.7	91.0	91.0	91.0	91.0	91.0	91.0	91.0	91.0	91.0	91.0	91.0
≥ 18000		91.2	90.7	91.0	91.2	91.2	91.2	91.2	91.2	91.2	91.2	91.2	91.2	91.2	91.2	91.2
≥ 16000		90.2	90.7	91.0	91.2	91.2	91.2	91.2	91.2	91.2	91.2	91.2	91.2	91.2	91.2	91.2
≥ 14000		91.8	92.2	92.6	92.7	92.7	92.7	92.7	92.7	92.7	92.7	92.7	92.7	92.7	92.7	92.7
≥ 12000		92.7	93.2	93.5	93.7	93.7	93.7	93.7	93.7	93.7	93.7	93.7	93.7	93.7	93.7	93.7
≥ 10000		93.5	94.0	94.4	94.5	94.5	94.5	94.5	94.5	94.5	94.5	94.5	94.5	94.5	94.5	94.5
≥ 9000		93.5	94.0	94.4	94.5	94.5	94.5	94.5	94.5	94.5	94.5	94.5	94.5	94.5	94.5	94.5
≥ 8000		94.7	94.5	94.9	95.0	95.0	95.0	95.0	95.0	95.0	95.0	95.0	95.0	95.0	95.0	95.0
≥ 7000		94.0	94.5	94.9	95.0	95.0	95.0	95.0	95.0	95.0	95.0	95.0	95.0	95.0	95.0	95.0
≥ 6000		94.1	94.6	95.0	95.1	95.1	95.1	95.1	95.1	95.1	95.1	95.1	95.1	95.1	95.1	95.1
≥ 5000		94.7	95.2	95.6	95.7	95.7	95.7	95.7	95.7	95.7	95.7	95.7	95.7	95.7	95.7	95.7
≥ 4500		94.7	95.2	95.6	95.7	95.7	95.7	95.7	95.7	95.7	95.7	95.7	95.7	95.7	95.7	95.7
≥ 4000		95.3	95.8	96.2	96.3	96.3	96.3	96.3	96.3	96.3	96.3	96.3	96.3	96.3	96.3	96.3
≥ 3500		95.5	95.9	96.3	96.4	96.4	96.4	96.4	96.4	96.4	96.4	96.4	96.4	96.4	96.4	96.4
≥ 3000		95.6	96.1	96.4	96.5	96.5	96.5	96.5	96.5	96.5	96.5	96.5	96.5	96.5	96.5	96.5
≥ 2500		95.6	96.1	96.4	96.5	96.5	96.5	96.5	96.5	96.5	96.5	96.5	96.5	96.5	96.5	96.5
≥ 2000		95.7	96.2	96.5	96.7	96.7	96.7	96.7	96.7	96.7	96.7	96.7	96.7	96.7	96.7	96.7
≥ 1800		95.9	96.4	96.8	96.9	96.9	96.9	96.9	96.9	96.9	96.9	96.9	96.9	96.9	96.9	96.9
≥ 1500		96.8	97.3	97.6	98.0	98.0	98.0	98.0	98.0	98.0	98.0	98.0	98.0	98.0	98.0	98.0
≥ 1200		97.3	97.7	98.1	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4
≥ 1000		97.8	98.3	98.7	99.0	99.0	99.0	99.0	99.0	99.0	99.0	99.0	99.0	99.0	99.0	99.0
≥ 900		98.4	98.4	98.8	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2
≥ 800		98.1	98.6	98.9	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3
≥ 700		99.4	99.4	99.4	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8
≥ 600		98.7	99.3	99.6	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 500		98.7	99.3	99.6	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 400		98.7	99.3	99.6	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 300		98.7	99.3	99.6	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 200		98.7	99.3	99.6	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 100		98.7	99.3	99.6	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 0		98.7	99.3	99.6	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TOTAL NUMBER OF OBSERVATIONS 837

GENERAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

## CEILING VERSUS VISIBILITY

121835 MATHER AFB CA

73-81

AUG

STATION

STATION NAME

YEAR

MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)

1600-0800  
HOURS (L.S.T.)

CEILING (FEET)	VISIBILITY STATUTE MILES															
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1¼	≥ 1	≥ ¾	≥ ½	≥ ¼	≥ 1/16	≥ 0	≥ 0
NO CEILING	81.6	85.0	87.7	87.9	87.9	87.9	87.9	87.9	87.9	87.9	87.9	87.9	87.9	87.9	87.9	87.9
≥ 20000	81.6	85.0	87.7	87.9	87.9	87.9	87.9	87.9	87.9	87.9	87.9	87.9	87.9	87.9	87.9	87.9
≥ 18000	82.7	88.1	90.1	90.3	90.3	90.3	90.3	90.3	90.3	90.3	90.3	90.3	90.3	90.3	90.3	90.3
≥ 16000	82.7	88.1	90.1	90.3	90.3	90.3	90.3	90.3	90.3	90.3	90.3	90.3	90.3	90.3	90.3	90.3
≥ 14000	82.3	88.5	91.7	91.9	91.9	91.9	91.9	91.9	91.9	91.9	91.9	91.9	91.9	91.9	91.9	91.9
≥ 12000	83.3	89.5	91.6	91.9	91.9	91.9	91.9	91.9	91.9	91.9	91.9	91.9	91.9	91.9	91.9	91.9
≥ 10000	84.5	90.7	92.8	93.1	93.1	93.1	93.1	93.1	93.1	93.1	93.1	93.1	93.1	93.1	93.1	93.1
≥ 9000	84.5	90.7	92.8	93.1	93.1	93.1	93.1	93.1	93.1	93.1	93.1	93.1	93.1	93.1	93.1	93.1
≥ 8000	84.6	90.8	93.0	93.2	93.2	93.2	93.2	93.2	93.2	93.2	93.2	93.2	93.2	93.2	93.2	93.2
≥ 7000	84.7	90.9	93.1	93.3	93.3	93.3	93.3	93.3	93.3	93.3	93.3	93.3	93.3	93.3	93.3	93.3
≥ 6000	85.3	91.5	93.7	93.9	93.9	93.9	93.9	93.9	93.9	93.9	93.9	93.9	93.9	93.9	93.9	93.9
≥ 5000	86.0	92.2	94.4	94.6	94.6	94.6	94.6	94.6	94.6	94.6	94.6	94.6	94.6	94.6	94.6	94.6
≥ 4500	86.0	92.2	94.4	94.6	94.6	94.6	94.6	94.6	94.6	94.6	94.6	94.6	94.6	94.6	94.6	94.6
≥ 4000	86.3	92.5	94.6	94.9	94.9	94.9	94.9	94.9	94.9	94.9	94.9	94.9	94.9	94.9	94.9	94.9
≥ 3500	86.5	92.7	94.9	95.1	95.1	95.1	95.1	95.1	95.1	95.1	95.1	95.1	95.1	95.1	95.1	95.1
≥ 3000	86.6	92.8	95.0	95.2	95.2	95.2	95.2	95.2	95.2	95.2	95.2	95.2	95.2	95.2	95.2	95.2
≥ 2500	86.6	92.8	95.1	95.2	95.2	95.2	95.2	95.2	95.2	95.2	95.2	95.2	95.2	95.2	95.2	95.2
≥ 2000	87.0	93.2	95.3	95.6	95.6	95.6	95.6	95.6	95.6	95.6	95.6	95.6	95.6	95.6	95.6	95.6
≥ 1800	87.5	93.7	95.8	96.1	96.1	96.1	96.1	96.1	96.1	96.1	96.1	96.1	96.1	96.1	96.1	96.1
≥ 1500	87.9	94.1	96.3	96.5	96.5	96.5	96.5	96.5	96.5	96.5	96.5	96.5	96.5	96.5	96.5	96.5
≥ 1200	88.9	95.2	97.4	97.6	97.6	97.6	97.6	97.6	97.6	97.6	97.6	97.6	97.6	97.6	97.6	97.6
≥ 1000	89.4	95.7	97.8	98.1	98.1	98.1	98.1	98.1	98.1	98.1	98.1	98.1	98.1	98.1	98.1	98.1
≥ 900	89.7	96.2	98.3	98.6	98.6	98.6	98.6	98.6	98.6	98.6	98.6	98.6	98.6	98.6	98.6	98.6
≥ 800	89.8	96.3	98.4	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7
≥ 700	89.8	96.4	98.8	99.0	99.0	99.0	99.0	99.0	99.0	99.0	99.0	99.0	99.0	99.0	99.0	99.0
≥ 600	90.1	96.7	99.0	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3
≥ 500	90.4	97.1	99.8	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 400	90.4	97.1	99.8	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 300	90.4	97.1	99.8	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 200	90.4	97.1	99.8	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 100	90.4	97.1	99.8	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 0	90.4	97.1	99.8	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TOTAL NUMBER OF OBSERVATIONS 837

ALPHAL CLIMATOLOGY BRANCH  
AFCEETAC  
AF WEATHER SERVICE/MAC

# CEILING VERSUS VISIBILITY

104835  
STATION

HATHER AFB CA  
STATION NAME

73-81  
YEARS

AUG  
MONTH

## PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

0900-1100  
HOURS (LST.)

CEILING (FEET)	VISIBILITY STATUTE MILES															
	≥10	≥6	≥5	≥4	≥3	≥2½	≥2	≥1½	≥1¼	≥1	¾	¾	¾	¾	≥5/16	≥¼
NO CEILING		89.4	91.4	90.4	90.4	90.4	90.4	90.4	90.4	90.4	90.4	90.4	90.4	90.4	90.4	90.4
≥ 20000		91.6	92.8	92.8	92.8	92.8	92.8	92.8	92.8	92.8	92.8	92.8	92.8	92.8	92.8	92.8
≥ 18000		91.8	93.0	93.0	93.0	93.0	93.0	93.0	93.0	93.0	93.0	93.0	93.0	93.0	93.0	93.0
≥ 16000		91.5	93.0	93.0	93.0	93.0	93.0	93.0	93.0	93.0	93.0	93.0	93.0	93.0	93.0	93.0
≥ 14000		93.3	94.5	94.5	94.5	94.5	94.5	94.5	94.5	94.5	94.5	94.5	94.5	94.5	94.5	94.5
≥ 12000		95.2	96.4	96.4	96.4	96.4	96.4	96.4	96.4	96.4	96.4	96.4	96.4	96.4	96.4	96.4
≥ 10000		95.8	97.0	97.0	97.0	97.0	97.0	97.0	97.0	97.0	97.0	97.0	97.0	97.0	97.0	97.0
≥ 9000		95.9	97.1	97.1	97.1	97.1	97.1	97.1	97.1	97.1	97.1	97.1	97.1	97.1	97.1	97.1
≥ 8000		96.3	97.5	97.5	97.5	97.5	97.5	97.5	97.5	97.5	97.5	97.5	97.5	97.5	97.5	97.5
≥ 7000		96.3	97.5	97.5	97.5	97.5	97.5	97.5	97.5	97.5	97.5	97.5	97.5	97.5	97.5	97.5
≥ 6000		96.3	97.5	97.5	97.5	97.5	97.5	97.5	97.5	97.5	97.5	97.5	97.5	97.5	97.5	97.5
≥ 5000		96.7	97.8	97.8	97.8	97.8	97.8	97.8	97.8	97.8	97.8	97.8	97.8	97.8	97.8	97.8
≥ 4500		96.7	97.8	97.8	97.8	97.8	97.8	97.8	97.8	97.8	97.8	97.8	97.8	97.8	97.8	97.8
≥ 4000		96.9	98.1	98.1	98.1	98.1	98.1	98.1	98.1	98.1	98.1	98.1	98.1	98.1	98.1	98.1
≥ 3500		96.9	98.1	98.1	98.1	98.1	98.1	98.1	98.1	98.1	98.1	98.1	98.1	98.1	98.1	98.1
≥ 3000		96.9	98.1	98.1	98.1	98.1	98.1	98.1	98.1	98.1	98.1	98.1	98.1	98.1	98.1	98.1
≥ 2500		97.1	98.3	98.3	98.3	98.3	98.3	98.3	98.3	98.3	98.3	98.3	98.3	98.3	98.3	98.3
≥ 2000		97.8	99.0	99.0	99.0	99.0	99.0	99.0	99.0	99.0	99.0	99.0	99.0	99.0	99.0	99.0
≥ 1800		98.0	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2
≥ 1500		98.2	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4
≥ 1200		98.3	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5
≥ 1000		98.3	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6
≥ 900		98.4	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9
≥ 800		98.6	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 700		98.6	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 600		98.6	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 500		98.6	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 400		98.6	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 300		98.6	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 200		98.6	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 100		98.6	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 0		98.6	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TOTAL NUMBER OF OBSERVATIONS 837



GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
ATMOSPHERIC WEATHER SERVICE/MAC

# CEILING VERSUS VISIBILITY

STATION 100835 MATHER AFB CA

73-81

AUG

PERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)

1200-1400  
HOURS (L.S.T.)

CEILING (FEET)	VISIBILITY STATUTE MILES															
	≥10	≥6	≥5	≥4	≥3	≥2 1/2	≥2	≥1 1/2	≥1 1/4	≥1	≥3/4	≥1/2	≥1/4	≥1/8	≥5/16	≥1/2
NO CEILING	91.7	91.6	92.0	92.1	92.1	92.1	92.1	92.1	92.1	92.1	92.1	92.1	92.1	92.1	92.1	92.1
≥ 20000	93.7	94.3	94.6	94.7	94.7	94.7	94.7	94.7	94.7	94.7	94.7	94.7	94.7	94.7	94.7	94.7
≥ 18000	93.9	94.5	94.9	95.0	95.0	95.0	95.0	95.0	95.0	95.0	95.0	95.0	95.0	95.0	95.0	95.0
≥ 16000	94.0	94.6	95.0	95.1	95.1	95.1	95.1	95.1	95.1	95.1	95.1	95.1	95.1	95.1	95.1	95.1
≥ 14000	95.2	95.3	96.2	96.3	96.3	96.3	96.3	96.3	96.3	96.3	96.3	96.3	96.3	96.3	96.3	96.3
≥ 12000	96.7	97.3	97.6	97.7	97.7	97.7	97.7	97.7	97.7	97.7	97.7	97.7	97.7	97.7	97.7	97.7
≥ 10000	97.0	97.6	98.0	98.1	98.1	98.1	98.1	98.1	98.1	98.1	98.1	98.1	98.1	98.1	98.1	98.1
≥ 9000	97.1	97.7	98.1	98.2	98.2	98.2	98.2	98.2	98.2	98.2	98.2	98.2	98.2	98.2	98.2	98.2
≥ 8000	97.6	98.2	98.6	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7
≥ 7000	97.6	98.2	98.6	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7
≥ 6000	97.6	98.2	98.6	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7
≥ 5000	97.7	98.3	98.7	98.8	98.8	98.9	99.0	99.0	99.0	99.0	99.0	99.0	99.0	99.0	99.0	99.0
≥ 4500	97.7	98.4	98.8	98.9	98.9	99.0	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2
≥ 4000	97.7	98.4	98.8	98.9	98.9	99.0	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2
≥ 3500	98.1	98.8	99.2	99.3	99.3	99.4	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5
≥ 3000	98.2	98.9	99.3	99.4	99.4	99.5	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6
≥ 2500	98.2	98.9	99.3	99.4	99.4	99.5	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6
≥ 2000	98.2	98.9	99.3	99.4	99.4	99.5	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6
≥ 1800	98.2	98.9	99.3	99.4	99.4	99.5	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6
≥ 1500	98.3	99.0	99.4	99.5	99.5	99.6	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8
≥ 1200	98.3	99.2	99.5	99.6	99.6	99.8	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9
≥ 1000	98.3	99.3	99.6	99.8	99.8	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 900	98.3	99.3	99.6	99.8	99.8	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 800	98.3	99.3	99.6	99.8	99.8	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 700	98.3	99.3	99.6	99.8	99.8	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 600	98.3	99.3	99.6	99.8	99.8	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 500	98.3	99.3	99.6	99.8	99.8	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 400	98.3	99.3	99.6	99.8	99.8	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 300	98.3	99.3	99.6	99.8	99.8	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 200	98.3	99.3	99.6	99.8	99.8	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 100	98.3	99.3	99.6	99.8	99.8	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 0	98.3	99.3	99.6	99.8	99.8	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TOTAL NUMBER OF OBSERVATIONS 837

CLIMATE CLIMATOLOGY BRANCH  
ETAC  
AIR WEATHER SERVICE/MAC

## CEILING VERSUS VISIBILITY

124835 MATHER AFB CA

73-81

AUG

STATION

STATION NAME

YEARS

MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)

1500-1700  
HOURS (L.S.T.)

CEILING (FEET)	VISIBILITY STATUTE MILES															
	≥10	≥8	≥6	≥4	≥3	≥2½	≥2	≥1½	≥1¼	≥1	¾	¾	¾	¾/16	¾	≥0
NO CEILING ≥ 20000		91.1	91.5	91.5	91.5	91.5	91.5	91.5	91.5	91.5	91.5	91.5	91.5	91.5	91.5	91.5
≥ 18000		94.4	94.9	94.9	94.9	94.9	94.9	94.9	94.9	94.9	94.9	94.9	94.9	94.9	94.9	94.9
≥ 16000		94.6	95.1	95.1	95.1	95.1	95.1	95.1	95.1	95.1	95.1	95.1	95.1	95.1	95.1	95.1
≥ 14000		94.6	95.1	95.1	95.1	95.1	95.1	95.1	95.1	95.1	95.1	95.1	95.1	95.1	95.1	95.1
≥ 12000		95.9	96.4	96.4	96.4	96.4	96.4	96.4	96.4	96.4	96.4	96.4	96.4	96.4	96.4	96.4
≥ 10000		97.0	97.5	97.5	97.5	97.5	97.5	97.5	97.5	97.5	97.5	97.5	97.5	97.5	97.5	97.5
≥ 8000		97.7	98.2	98.2	98.2	98.2	98.2	98.2	98.2	98.2	98.2	98.2	98.2	98.2	98.2	98.2
≥ 7000		98.0	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4
≥ 6000		98.4	98.9	98.9	98.9	98.9	98.9	98.9	98.9	98.9	98.9	98.9	98.9	98.9	98.9	98.9
≥ 5000		98.4	98.9	98.9	98.9	98.9	98.9	98.9	98.9	98.9	98.9	98.9	98.9	98.9	98.9	98.9
≥ 4500		98.8	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3
≥ 4000		98.9	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4
≥ 3500		98.9	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4
≥ 3000		99.2	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6
≥ 2500		99.2	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6
≥ 2000		99.2	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6
≥ 1800		99.2	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6
≥ 1500		99.2	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6
≥ 1200		99.3	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8
≥ 1000		99.3	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8
≥ 900		99.3	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8
≥ 800		99.3	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8
≥ 700		99.3	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8
≥ 600		99.3	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8
≥ 500		99.3	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8
≥ 400		99.3	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8
≥ 300		99.3	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8
≥ 200		99.3	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8
≥ 100		99.3	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8
≥ 0		99.3	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8

TOTAL NUMBER OF OBSERVATIONS 837

GLOBAL CLIMATOLOGY BRANCH  
USAF ETAC  
AIR WEATHER SERVICE/MAC

## CEILING VERSUS VISIBILITY

121835 MATHER AFB CA

73-81

AUG

STATION

STATION NAME

YEARS

MONTH

### PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

1800-2000  
HOURS (L.S.T.)

CEILING (FEET)	VISIBILITY: STATUTE MILES															
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1¼	≥ 1	¾	½	¼	≥ 5/16	¼	≥ 0
NO CEILING		91.7	91.3	91.4	91.4	91.4	91.4	91.4	91.4	91.4	91.4	91.4	91.4	91.4	91.4	91.4
≥ 20000		94.7	94.6	94.7	94.7	94.7	94.7	94.7	94.7	94.7	94.7	94.7	94.7	94.7	94.7	94.7
≥ 18000		94.1	94.7	94.9	94.9	94.9	94.9	94.9	94.9	94.9	94.9	94.9	94.9	94.9	94.9	94.9
≥ 16000		94.4	95.1	95.1	95.1	95.1	95.1	95.1	95.1	95.1	95.1	95.1	95.1	95.1	95.1	95.1
≥ 14000		94.9	95.5	95.6	95.6	95.6	95.6	95.6	95.6	95.6	95.6	95.6	95.6	95.6	95.6	95.6
≥ 12000		96.3	96.9	97.0	97.0	97.0	97.0	97.0	97.0	97.0	97.0	97.0	97.0	97.0	97.0	97.0
≥ 10000		97.7	98.3	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4
≥ 9000		97.8	98.4	98.6	98.6	98.6	98.6	98.6	98.6	98.6	98.6	98.6	98.6	98.6	98.6	98.6
≥ 8000		98.2	98.6	98.9	98.9	98.9	98.9	98.9	98.9	98.9	98.9	98.9	98.9	98.9	98.9	98.9
≥ 7000		98.2	98.8	98.9	98.9	98.9	98.9	98.9	98.9	98.9	98.9	98.9	98.9	98.9	98.9	98.9
≥ 6000		98.2	98.8	98.9	98.9	98.9	98.9	98.9	98.9	98.9	98.9	98.9	98.9	98.9	98.9	98.9
≥ 5000		99.0	99.6	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8
≥ 4500		99.2	99.8	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9
≥ 4000		99.2	99.8	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9
≥ 3500		99.2	99.8	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9
≥ 3000		99.2	99.8	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9
≥ 2500		99.3	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 2000		99.3	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 1800		99.3	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 1500		99.3	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 1200		99.3	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 1000		99.3	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 900		99.3	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 800		99.3	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 700		99.3	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 600		99.3	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 500		99.3	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 400		99.3	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 300		99.3	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 200		99.3	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 100		99.3	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 0		99.3	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TOTAL NUMBER OF OBSERVATIONS 837

CLIMATE CLIMATOLOGY BRANCH  
 AFETAC  
 AIR WEATHER SERVICE/MAC

# CEILING VERSUS VISIBILITY

835  
 STATION

MATHER AFB CA

73-61

AUG

PERCENTAGE FREQUENCY OF OCCURRENCE  
 (FROM HOURLY OBSERVATIONS)

2100-2300  
 MONTH  
 HOURS (L.S.T.)

CEILING (FEET)	VISIBILITY STATUTE MILES															
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1¼	≥ 1	≥ ¾	≥ ½	≥ ¼	≥ 1/16	≥ 0	≥ 0
NO CEILING	94.6	94.6	94.9	94.9	94.9	94.9	94.9	94.9	94.9	94.9	94.9	94.9	94.9	94.9	94.9	94.9
≥ 20000	96.1	96.1	96.3	96.3	96.3	96.3	96.3	96.3	96.3	96.3	96.3	96.3	96.3	96.3	96.3	96.3
≥ 18000	96.1	96.1	96.3	96.3	96.3	96.3	96.3	96.3	96.3	96.3	96.3	96.3	96.3	96.3	96.3	96.3
≥ 16000	96.1	96.1	96.3	96.3	96.3	96.3	96.3	96.3	96.3	96.3	96.3	96.3	96.3	96.3	96.3	96.3
≥ 14000	96.4	96.5	96.8	96.8	96.8	96.8	96.8	96.8	96.8	96.8	96.8	96.8	96.8	96.8	96.8	96.8
≥ 12000	97.4	97.5	97.7	97.7	97.7	97.7	97.7	97.7	97.7	97.7	97.7	97.7	97.7	97.7	97.7	97.7
≥ 10000	98.3	98.4	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7
≥ 9000	98.3	98.4	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7
≥ 8000	98.7	98.8	99.0	99.0	99.0	99.0	99.0	99.0	99.0	99.0	99.0	99.0	99.0	99.0	99.0	99.0
≥ 7000	98.7	98.8	99.0	99.0	99.0	99.0	99.0	99.0	99.0	99.0	99.0	99.0	99.0	99.0	99.0	99.0
≥ 6000	98.7	98.8	99.0	99.0	99.0	99.0	99.0	99.0	99.0	99.0	99.0	99.0	99.0	99.0	99.0	99.0
≥ 5000	98.9	99.0	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3
≥ 4500	99.4	99.6	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9
≥ 4000	99.4	99.6	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9
≥ 3500	99.4	99.6	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9
≥ 3000	99.4	99.6	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9
≥ 2500	99.4	99.6	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9
≥ 2000	99.4	99.6	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9
≥ 1800	99.4	99.6	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9
≥ 1500	99.5	99.8	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 1200	99.5	99.8	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 1000	99.5	99.8	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 900	99.5	99.8	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 800	99.5	99.8	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 700	99.5	99.8	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 600	99.5	99.8	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 500	99.5	99.8	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 400	99.5	99.8	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 300	99.5	99.8	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 200	99.5	99.8	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 100	99.5	99.8	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 0	99.5	99.8	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TOTAL NUMBER OF OBSERVATIONS 837

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

## CEILING VERSUS VISIBILITY

17 APR 35 MATHER AFB CA

73-81

AUG

STATION

STATION NAME

YEARS

MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)

ALL  
HOURS (L.S.T.)

CEILING (FEET)	VISIBILITY: STATUTE MILES															
	≥10	≥6	≥5	≥4	≥3	≥2½	≥2	≥1½	≥1¼	≥1	≥¾	≥½	≥¼	≥5/16	≥¼	≥0
NO CEILING		97.8	91.4	91.3	91.4	91.4	91.4	91.4	91.4	91.4	91.4	91.4	91.4	91.4	91.4	91.4
≥ 20000		91.9	93.1	93.5	93.6	93.6	93.6	93.6	93.6	93.6	93.6	93.6	93.6	93.6	93.6	93.6
≥ 18000		92.1	93.3	93.7	93.7	93.7	93.7	93.7	93.7	93.7	93.7	93.7	93.7	93.7	93.7	93.7
≥ 16000		92.1	93.3	93.7	93.8	93.8	93.8	93.8	93.8	93.8	93.8	93.8	93.8	93.8	93.8	93.8
≥ 14000		93.1	94.3	94.7	94.8	94.8	94.8	94.8	94.8	94.8	94.8	94.8	94.8	94.8	94.8	94.8
≥ 12000		94.3	95.5	95.9	96.3	96.4	96.4	96.4	96.4	96.4	96.4	96.4	96.4	96.4	96.4	96.4
≥ 10000		95.2	96.4	96.8	96.8	96.8	96.8	96.8	96.8	96.8	96.8	96.8	96.8	96.8	96.8	96.8
≥ 9000		95.3	96.5	96.9	96.9	96.9	96.9	96.9	96.9	96.9	96.9	96.9	96.9	96.9	96.9	96.9
≥ 8000		95.6	96.8	97.3	97.3	97.3	97.3	97.3	97.3	97.3	97.3	97.3	97.3	97.3	97.3	97.3
≥ 7000		95.7	96.9	97.3	97.4	97.4	97.4	97.4	97.4	97.4	97.4	97.4	97.4	97.4	97.4	97.4
≥ 6000		95.8	97.0	97.4	97.4	97.4	97.4	97.4	97.4	97.4	97.4	97.4	97.4	97.4	97.4	97.4
≥ 5000		95.3	97.5	97.9	97.9	98.0	98.0	98.0	98.0	98.0	98.0	98.0	98.0	98.0	98.0	98.0
≥ 4500		96.4	97.6	98.0	98.1	98.1	98.1	98.1	98.1	98.1	98.1	98.1	98.1	98.1	98.1	98.1
≥ 4000		96.6	97.8	98.2	98.3	98.3	98.3	98.3	98.3	98.3	98.3	98.3	98.3	98.3	98.3	98.3
≥ 3500		96.7	98.0	98.4	98.4	98.4	98.4	98.5	98.5	98.5	98.5	98.5	98.5	98.5	98.5	98.5
≥ 3000		96.8	98.1	98.4	98.5	98.5	98.5	98.5	98.5	98.5	98.5	98.5	98.5	98.5	98.5	98.5
≥ 2500		96.8	98.1	98.4	98.5	98.5	98.5	98.6	98.6	98.6	98.6	98.6	98.6	98.6	98.6	98.6
≥ 2000		97.1	98.2	98.6	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7
≥ 1800		97.1	98.3	98.7	98.8	98.8	98.8	98.8	98.8	98.8	98.8	98.8	98.8	98.8	98.8	98.8
≥ 1600		97.3	98.6	99.0	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1
≥ 1400		97.6	98.9	99.3	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4
≥ 1200		97.7	99.1	99.5	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6
≥ 1000		97.8	99.1	99.6	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7
≥ 900		97.8	99.2	99.6	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7
≥ 800		97.8	99.2	99.6	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7
≥ 700		97.9	99.3	99.7	99.8	99.8	99.8	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9
≥ 600		98.0	99.3	99.8	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9
≥ 500		98.1	99.4	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 400		98.1	99.4	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 300		98.1	99.4	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 200		98.3	99.4	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 100		98.0	99.4	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 0		93.7	99.4	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TOTAL NUMBER OF OBSERVATIONS 6696

AL CLIMATOLOGY BRANCH  
TAC  
AIR FATHER SERVICE/MAR

# CEILING VERSUS VISIBILITY

STATION NAME

73-51

SEP

STATION

STATION NAME

YEARS

MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)

1000-0200  
HOURS (L.S.T.)

CEILING FEET	VISIBILITY STATUTE MILES															
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1¼	≥ 1	≥ ¾	≥ ½	≥ ¼	≥ 1/10	≥ 1/20	≥ 0
NO RECORD	97.9	97.1	97.2	93.2	93.2	90.2	90.2	90.2	90.2	90.2	90.2	90.2	90.2	90.2	90.2	90.2
≥ 20000	97.9	97.1	97.2	93.2	93.2	90.2	90.2	90.2	90.2	90.2	90.2	90.2	90.2	90.2	90.2	90.2
≥ 18000	97.9	97.1	97.2	93.2	93.2	90.2	90.2	90.2	90.2	90.2	90.2	90.2	90.2	90.2	90.2	90.2
≥ 16000	97.9	97.1	97.2	93.2	93.2	90.2	90.2	90.2	90.2	90.2	90.2	90.2	90.2	90.2	90.2	90.2
≥ 14000	97.9	97.1	97.2	93.2	93.2	90.2	90.2	90.2	90.2	90.2	90.2	90.2	90.2	90.2	90.2	90.2
≥ 12000	97.9	97.1	97.2	93.2	93.2	90.2	90.2	90.2	90.2	90.2	90.2	90.2	90.2	90.2	90.2	90.2
≥ 10000	97.9	97.1	97.2	93.2	93.2	90.2	90.2	90.2	90.2	90.2	90.2	90.2	90.2	90.2	90.2	90.2
≥ 8000	97.9	97.1	97.2	93.2	93.2	90.2	90.2	90.2	90.2	90.2	90.2	90.2	90.2	90.2	90.2	90.2
≥ 7000	97.9	97.1	97.2	93.2	93.2	90.2	90.2	90.2	90.2	90.2	90.2	90.2	90.2	90.2	90.2	90.2
≥ 6000	97.9	97.1	97.2	93.2	93.2	90.2	90.2	90.2	90.2	90.2	90.2	90.2	90.2	90.2	90.2	90.2
≥ 5000	97.9	97.1	97.2	93.2	93.2	90.2	90.2	90.2	90.2	90.2	90.2	90.2	90.2	90.2	90.2	90.2
≥ 4500	97.9	97.1	97.2	93.2	93.2	90.2	90.2	90.2	90.2	90.2	90.2	90.2	90.2	90.2	90.2	90.2
≥ 4000	97.9	97.1	97.2	93.2	93.2	90.2	90.2	90.2	90.2	90.2	90.2	90.2	90.2	90.2	90.2	90.2
≥ 3500	97.9	97.1	97.2	93.2	93.2	90.2	90.2	90.2	90.2	90.2	90.2	90.2	90.2	90.2	90.2	90.2
≥ 3000	97.9	97.1	97.2	93.2	93.2	90.2	90.2	90.2	90.2	90.2	90.2	90.2	90.2	90.2	90.2	90.2
≥ 2500	97.9	97.1	97.2	93.2	93.2	90.2	90.2	90.2	90.2	90.2	90.2	90.2	90.2	90.2	90.2	90.2
≥ 2000	97.9	97.1	97.2	93.2	93.2	90.2	90.2	90.2	90.2	90.2	90.2	90.2	90.2	90.2	90.2	90.2
≥ 1800	97.9	97.1	97.2	93.2	93.2	90.2	90.2	90.2	90.2	90.2	90.2	90.2	90.2	90.2	90.2	90.2
≥ 1500	97.9	97.1	97.2	93.2	93.2	90.2	90.2	90.2	90.2	90.2	90.2	90.2	90.2	90.2	90.2	90.2
≥ 1200	97.9	97.1	97.2	93.2	93.2	90.2	90.2	90.2	90.2	90.2	90.2	90.2	90.2	90.2	90.2	90.2
≥ 1000	97.9	97.1	97.2	93.2	93.2	90.2	90.2	90.2	90.2	90.2	90.2	90.2	90.2	90.2	90.2	90.2
≥ 900	97.9	97.1	97.2	93.2	93.2	90.2	90.2	90.2	90.2	90.2	90.2	90.2	90.2	90.2	90.2	90.2
≥ 800	97.9	97.1	97.2	93.2	93.2	90.2	90.2	90.2	90.2	90.2	90.2	90.2	90.2	90.2	90.2	90.2
≥ 700	97.9	97.1	97.2	93.2	93.2	90.2	90.2	90.2	90.2	90.2	90.2	90.2	90.2	90.2	90.2	90.2
≥ 600	97.9	97.1	97.2	93.2	93.2	90.2	90.2	90.2	90.2	90.2	90.2	90.2	90.2	90.2	90.2	90.2
≥ 500	97.9	97.1	97.2	93.2	93.2	90.2	90.2	90.2	90.2	90.2	90.2	90.2	90.2	90.2	90.2	90.2
≥ 400	97.9	97.1	97.2	93.2	93.2	90.2	90.2	90.2	90.2	90.2	90.2	90.2	90.2	90.2	90.2	90.2
≥ 300	97.9	97.1	97.2	93.2	93.2	90.2	90.2	90.2	90.2	90.2	90.2	90.2	90.2	90.2	90.2	90.2
≥ 200	97.9	97.1	97.2	93.2	93.2	90.2	90.2	90.2	90.2	90.2	90.2	90.2	90.2	90.2	90.2	90.2
≥ 100	97.9	97.1	97.2	93.2	93.2	90.2	90.2	90.2	90.2	90.2	90.2	90.2	90.2	90.2	90.2	90.2
≥ 0	97.9	97.1	97.2	93.2	93.2	90.2	90.2	90.2	90.2	90.2	90.2	90.2	90.2	90.2	90.2	90.2

TOTAL NUMBER OF OBSERVATIONS 809

JUNIOR CLIMATOLOGY BRANCH  
AFM/TAC  
AF WEATHER SERVICE/MAC

# CEILING VERSUS VISIBILITY

STATION 925 MATHER AFB CA

73-81

SEP

STATION

STATION NAME

YEARS

MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)

300-0500  
HOURS (L.S.T.)

CEILING (FEET)	VISIBILITY STATUTE MILES															
	≥ 0	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1¼	≥ 1	≥ ¾	≥ ½	≥ ¼	≥ 1/16	≥ 0	≥ 0
NO RECORD																
≥ 20000		86.9	86.9	86.9	86.9	86.9	86.9	86.9	86.9	86.9	86.9	86.9	86.9	86.9	86.9	86.9
≥ 18000		87.9	87.9	87.9	87.9	87.9	87.9	87.9	87.9	87.9	87.9	87.9	87.9	87.9	87.9	87.9
≥ 16000		88.3	88.3	88.3	88.3	88.3	88.3	88.3	88.3	88.3	88.3	88.3	88.3	88.3	88.3	88.3
≥ 14000		88.3	88.3	88.3	88.3	88.3	88.3	88.3	88.3	88.3	88.3	88.3	88.3	88.3	88.3	88.3
≥ 12000		89.3	89.3	89.3	89.3	89.3	89.3	89.3	89.3	89.3	89.3	89.3	89.3	89.3	89.3	89.3
≥ 10000		91.6	91.6	91.6	91.6	91.6	91.6	91.6	91.6	91.6	91.6	91.6	91.6	91.6	91.6	91.6
≥ 8000		92.1	92.1	92.1	92.1	92.1	92.1	92.1	92.1	92.1	92.1	92.1	92.1	92.1	92.1	92.1
≥ 6000		92.3	92.3	92.3	92.3	92.3	92.3	92.3	92.3	92.3	92.3	92.3	92.3	92.3	92.3	92.3
≥ 4000		93.7	93.7	93.7	93.7	93.7	93.7	93.7	93.7	93.7	93.7	93.7	93.7	93.7	93.7	93.7
≥ 2000		93.7	93.7	93.7	93.7	93.7	93.7	93.7	93.7	93.7	93.7	93.7	93.7	93.7	93.7	93.7
≥ 1000		94.2	94.2	94.2	94.2	94.2	94.2	94.2	94.2	94.2	94.2	94.2	94.2	94.2	94.2	94.2
≥ 5000		95.9	95.9	95.9	95.9	95.9	95.9	95.9	95.9	95.9	95.9	95.9	95.9	95.9	95.9	95.9
≥ 4500		96.9	96.9	96.9	96.9	96.9	96.9	96.9	96.9	96.9	96.9	96.9	96.9	96.9	96.9	96.9
≥ 4000		97.0	97.0	97.0	97.0	97.0	97.0	97.0	97.0	97.0	97.0	97.0	97.0	97.0	97.0	97.0
≥ 3500		97.4	97.4	97.4	97.4	97.4	97.4	97.4	97.4	97.4	97.4	97.4	97.4	97.4	97.4	97.4
≥ 3000		97.9	97.9	97.9	97.9	97.9	97.9	97.9	97.9	97.9	97.9	97.9	97.9	97.9	97.9	97.9
≥ 2500		97.9	97.9	97.9	97.9	97.9	97.9	97.9	97.9	97.9	97.9	97.9	97.9	97.9	97.9	97.9
≥ 2000		97.9	97.9	97.9	97.9	97.9	97.9	97.9	97.9	97.9	97.9	97.9	97.9	97.9	97.9	97.9
≥ 1800		98.1	98.1	98.1	98.1	98.1	98.1	98.1	98.1	98.1	98.1	98.1	98.1	98.1	98.1	98.1
≥ 1600		98.5	98.5	98.5	98.5	98.5	98.5	98.5	98.5	98.5	98.5	98.5	98.5	98.5	98.5	98.5
≥ 1400		99.0	99.0	99.0	99.0	99.0	99.0	99.0	99.0	99.0	99.0	99.0	99.0	99.0	99.0	99.0
≥ 1200		99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1
≥ 1000		99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3
≥ 900		99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3
≥ 800		99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4
≥ 700		99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5
≥ 600		99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5
≥ 500		99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6
≥ 400		99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6
≥ 300		99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6
≥ 200		99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6
≥ 100		99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8
≥ 0		99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8

TOTAL NUMBER OF OBSERVATIONS 810

AL CLIMATOLOGY BRANCH  
ETAC  
AT WEATHER SERVICE/MAC

# CEILING VERSUS VISIBILITY

835 WATHER 459 CA

73-81

SEP

STATION STATION NAME

YEARS

MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)

600-0000

HOURS (L.S.T.)

CEILING (FEET)	VISIBILITY STATUTE MILES															
	≥10	≥6	≥5	≥4	≥3	≥2 1/2	≥2	≥1 1/2	≥1 1/4	≥1	≥3/4	≥1/2	≥1/4	≥5/16	≥1/8	≥0
NO CEILING		76.7	81.2	87.8	94.0	94.0	94.0	94.0	94.0	94.0	94.0	94.0	94.0	94.0	94.0	94.0
≥ 20000		79.8	82.3	84.9	86.0	86.0	86.0	86.0	86.0	86.0	86.0	86.0	86.0	86.0	86.0	86.0
≥ 18000		78.9	82.5	85.1	86.2	86.2	86.2	86.2	86.2	86.2	86.2	86.2	86.2	86.2	86.2	86.2
≥ 16000		79.1	82.6	85.2	86.3	86.3	86.3	86.3	86.3	86.3	86.3	86.3	86.3	86.3	86.3	86.3
≥ 14000		74.9	83.5	86.3	87.2	87.2	87.2	87.2	87.2	87.2	87.2	87.2	87.2	87.2	87.2	87.2
≥ 12000		91.9	85.6	88.1	89.3	89.3	89.3	89.3	89.3	89.3	89.3	89.3	89.3	89.3	89.3	89.3
≥ 9000		92.2	85.9	88.5	89.6	89.6	89.6	89.6	89.6	89.6	89.6	89.6	89.6	89.6	89.6	89.6
≥ 8000		92.8	86.5	89.1	90.2	90.2	90.2	90.2	90.2	90.2	90.2	90.2	90.2	90.2	90.2	90.2
≥ 7000		93.7	87.4	90.1	91.2	91.2	91.2	91.2	91.2	91.2	91.2	91.2	91.2	91.2	91.2	91.2
≥ 6000		93.8	87.5	90.2	91.4	91.4	91.4	91.4	91.4	91.4	91.4	91.4	91.4	91.4	91.4	91.4
≥ 5000		94.4	88.1	90.9	92.0	92.0	92.0	92.0	92.0	92.0	92.0	92.0	92.0	92.0	92.0	92.0
≥ 4500		95.2	88.9	91.6	92.8	92.8	92.8	92.8	92.8	92.8	92.8	92.8	92.8	92.8	92.8	92.8
≥ 4000		95.7	89.5	92.3	93.6	93.6	93.6	93.6	93.6	93.6	93.6	93.6	93.6	93.6	93.6	93.6
≥ 3500		96.3	90.1	93.0	94.2	94.2	94.2	94.2	94.2	94.2	94.2	94.2	94.2	94.2	94.2	94.2
≥ 3000		96.4	90.2	93.1	94.3	94.3	94.3	94.3	94.3	94.3	94.3	94.3	94.3	94.3	94.3	94.3
≥ 2500		96.7	90.5	93.3	94.6	94.6	94.6	94.6	94.6	94.6	94.6	94.6	94.6	94.6	94.6	94.6
≥ 2000		96.7	91.1	94.0	95.2	95.2	95.2	95.2	95.2	95.2	95.2	95.2	95.2	95.2	95.2	95.2
≥ 1800		97.8	91.5	94.4	95.7	95.7	95.7	95.7	95.7	95.7	95.7	95.7	95.7	95.7	95.7	95.7
≥ 1500		98.4	92.3	95.2	96.4	96.4	96.4	96.4	96.4	96.4	96.4	96.4	96.4	96.4	96.4	96.4
≥ 1200		98.4	93.3	96.2	97.4	97.4	97.4	97.5	97.5	97.5	97.5	97.5	97.5	97.5	97.5	97.5
≥ 1000		98.1	94.1	96.9	98.1	98.1	98.1	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4
≥ 900		98.2	94.4	97.3	98.5	98.5	98.5	98.8	98.8	98.8	98.8	98.8	98.8	98.8	98.8	98.8
≥ 800		98.4	94.5	97.4	98.6	98.6	98.6	98.9	98.9	98.9	98.9	98.9	98.9	98.9	98.9	98.9
≥ 700		98.7	94.9	97.8	99.0	99.0	99.0	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3
≥ 600		98.9	95.1	97.9	99.1	99.1	99.1	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4
≥ 500		98.9	95.1	98.3	99.3	99.3	99.3	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5
≥ 400		91.0	95.2	98.1	99.4	99.4	99.4	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6
≥ 300		91.0	95.2	98.1	99.5	99.5	99.5	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8
≥ 200		91.0	95.2	98.1	99.5	99.5	99.5	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8
≥ 100		91.0	95.2	98.1	99.5	99.5	99.5	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8
≥ 0		91.0	95.2	98.1	99.5	99.5	99.5	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8

TOTAL NUMBER OF OBSERVATIONS 810



CLIMATE CLIMATOLOGY BRANCH  
USAF ETAC  
AF WEATHER SERVICE/MAC

# CEILING VERSUS VISIBILITY

STATION NAME FATHER AFF CA

73-81

SEP

PERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)

1900-1100  
HOURS (L.S.T.)

CEILING (FEET)	VISIBILITY STATUTE MILES															
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2 1/2	≥ 2	≥ 1 1/2	≥ 1 1/4	≥ 1	≥ 3/4	≥ 1/2	≥ 1/4	≥ 1/8	≥ 1/16	≥ 0
NO CEILING ≥ 20000	87.8	88.4	89.4	89.5	89.5	89.5	89.5	89.5	89.5	89.5	89.5	89.5	89.5	89.5	89.5	89.5
≥ 18000	88.1	89.1	89.6	89.8	89.8	89.8	89.8	89.8	89.8	89.8	89.8	89.8	89.8	89.8	89.8	89.8
≥ 16000	89.4	91.5	91.3	91.1	91.1	91.1	91.1	91.1	91.1	91.1	91.1	91.1	91.1	91.1	91.1	91.1
≥ 14000	90.4	91.5	92.3	92.1	92.1	92.1	92.1	92.1	92.1	92.1	92.1	92.1	92.1	92.1	92.1	92.1
≥ 12000	92.0	93.1	93.6	93.7	93.7	93.7	93.7	93.7	93.7	93.7	93.7	93.7	93.7	93.7	93.7	93.7
≥ 10000	92.2	93.3	93.8	94.0	94.0	94.0	94.0	94.0	94.0	94.0	94.0	94.0	94.0	94.0	94.0	94.0
≥ 8000	92.5	93.7	94.2	94.3	94.3	94.3	94.3	94.3	94.3	94.3	94.3	94.3	94.3	94.3	94.3	94.3
≥ 7000	92.6	93.8	94.3	94.4	94.4	94.4	94.4	94.4	94.4	94.4	94.4	94.4	94.4	94.4	94.4	94.4
≥ 6000	93.3	94.6	95.1	95.2	95.2	95.2	95.2	95.2	95.2	95.2	95.2	95.2	95.2	95.2	95.2	95.2
≥ 5000	93.6	94.9	95.4	95.7	95.7	95.7	95.7	95.7	95.7	95.7	95.7	95.7	95.7	95.7	95.7	95.7
≥ 4500	94.3	95.7	96.2	96.4	96.4	96.4	96.4	96.4	96.4	96.4	96.4	96.4	96.4	96.4	96.4	96.4
≥ 4000	94.7	96.3	96.8	97.0	97.0	97.0	97.0	97.0	97.0	97.0	97.0	97.0	97.0	97.0	97.0	97.0
≥ 3500	94.9	96.5	97.0	97.3	97.3	97.3	97.3	97.3	97.3	97.3	97.3	97.3	97.3	97.3	97.3	97.3
≥ 3000	95.9	97.5	98.0	98.3	98.3	98.3	98.3	98.3	98.3	98.3	98.3	98.3	98.3	98.3	98.3	98.3
≥ 2500	96.4	98.3	98.6	98.9	98.9	98.9	98.9	98.9	98.9	98.9	98.9	98.9	98.9	98.9	98.9	98.9
≥ 2000	96.7	98.3	98.9	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1
≥ 1800	96.8	98.4	99.0	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3
≥ 1600	97.2	98.8	99.4	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6
≥ 1400	97.3	98.8	99.4	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6
≥ 1200	97.3	98.9	99.5	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8
≥ 1000	97.3	98.9	99.5	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8
≥ 900	97.3	98.9	99.5	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8
≥ 800	97.3	98.9	99.5	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8
≥ 700	97.3	98.9	99.5	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8
≥ 600	97.3	98.9	99.5	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8
≥ 500	97.3	98.9	99.5	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8
≥ 400	97.4	99.0	99.6	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9
≥ 300	97.4	99.0	99.6	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9
≥ 200	97.4	99.0	99.6	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9
≥ 100	97.4	99.0	99.6	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9
≥ 0	97.4	99.0	99.6	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9

TOTAL NUMBER OF OBSERVATIONS 810

CLIMATE CLIMATOLOGY BRANCH  
AFETAC  
AF WEATHER SERVICE/MAC

## CEILING VERSUS VISIBILITY

0-635 MATHER AFB CA

73-81

SEP

STATION STATION NAME

PERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)

1200-1400  
HOURS (L.A.T.)

CEILING FEET	VISIBILITY STATUTE MILES															
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1¼	≥ 1	≥ ¾	≥ ½	≥ ¼	≥ 1/16	≥ 0	≥ 0
NO CEILING		87.4	87.4	87.4	87.4	87.4	87.4	87.4	87.4	87.4	87.4	87.4	87.4	87.4	87.4	87.4
≥ 20000		91.5	91.8	91.8	91.8	91.8	91.8	91.8	91.8	91.8	91.8	91.8	91.8	91.8	91.8	91.8
≥ 18000		91.8	92.2	92.2	92.2	92.2	92.2	92.2	92.2	92.2	92.2	92.2	92.2	92.2	92.2	92.2
≥ 16000		92.3	92.3	92.3	92.3	92.3	92.3	92.3	92.3	92.3	92.3	92.3	92.3	92.3	92.3	92.3
≥ 14000		93.2	93.6	93.6	93.6	93.6	93.6	93.6	93.6	93.6	93.6	93.6	93.6	93.6	93.6	93.6
≥ 12000		94.6	94.9	95.1	95.1	95.1	95.1	95.1	95.1	95.1	95.1	95.1	95.1	95.1	95.1	95.1
≥ 10000		95.6	95.9	96.0	96.0	96.0	96.0	96.0	96.0	96.0	96.0	96.0	96.0	96.0	96.0	96.0
≥ 9000		95.6	95.9	96.0	96.0	96.0	96.0	96.0	96.0	96.0	96.0	96.0	96.0	96.0	96.0	96.0
≥ 8000		95.7	96.0	96.3	96.3	96.3	96.3	96.3	96.3	96.3	96.3	96.3	96.3	96.3	96.3	96.3
≥ 7000		95.7	96.0	96.3	96.3	96.3	96.3	96.3	96.3	96.3	96.3	96.3	96.3	96.3	96.3	96.3
≥ 6000		96.7	97.2	97.5	97.5	97.5	97.5	97.5	97.5	97.5	97.5	97.5	97.5	97.5	97.5	97.5
≥ 5000		97.4	97.9	98.3	98.3	98.3	98.3	98.3	98.3	98.3	98.3	98.3	98.3	98.3	98.3	98.3
≥ 4500		97.7	98.1	98.5	98.5	98.5	98.5	98.5	98.5	98.5	98.5	98.5	98.5	98.5	98.5	98.5
≥ 4000		97.9	98.4	98.8	98.9	98.9	98.9	98.9	98.9	98.9	98.9	98.9	98.9	98.9	98.9	98.9
≥ 3500		98.1	98.6	99.0	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1
≥ 3000		98.8	99.4	99.8	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 2500		98.8	99.4	99.8	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 2000		98.8	99.4	99.8	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 1800		98.8	99.4	99.8	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 1500		98.8	99.4	99.8	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 1200		98.8	99.4	99.8	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 1000		98.8	99.4	99.8	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 900		98.8	99.4	99.8	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 800		98.8	99.4	99.8	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 700		98.8	99.4	99.8	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 600		98.8	99.4	99.8	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 500		98.8	99.4	99.8	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 400		98.8	99.4	99.8	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 300		98.8	99.4	99.8	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 200		98.8	99.4	99.8	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 100		98.8	99.4	99.8	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 0		98.8	99.4	99.8	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TOTAL NUMBER OF OBSERVATIONS 809

## CEILING VERSUS VISIBILITY

73-41

SEP

STATION

STATION NAME

**YEAR**

**MONTH**

1500-1700  
HOURS (L.S.T.)

CEILING (FEET)	VISIBILITY STATUTE MILES															
	NO	26	25	24	23	22%	22	21%	21%	21	20%	20%	20%	25/10	24	20
NO CEILING																
≥ 20000	95.7	86.4	86.4	86.4	85.4	86.4	86.5	86.5	86.5	86.5	86.5	86.5	86.5	86.5	86.5	86.5
18000	91.6	91.3	91.3	91.3	91.3	91.3	91.5	91.5	91.5	91.5	91.5	91.5	91.5	91.5	91.5	91.5
16000	91.7	91.5	91.5	91.5	91.5	91.5	91.6	91.6	91.6	91.6	91.6	91.6	91.6	91.6	91.6	91.6
14000	91.6	92.3	92.3	92.3	92.3	92.3	92.5	92.5	92.5	92.5	92.5	92.5	92.5	92.5	92.5	92.5
12000	94.4	95.2	95.2	95.2	95.2	95.2	95.3	95.3	95.3	95.3	95.3	95.3	95.3	95.3	95.3	95.3
10000	95.6	96.3	96.3	96.3	96.3	96.3	96.4	96.4	96.4	96.4	96.4	96.4	96.4	96.4	96.4	96.4
9000	95.8	96.5	96.7	96.7	96.7	96.7	96.8	96.8	96.8	96.8	96.8	96.8	96.8	96.8	96.8	96.8
8000	95.4	97.4	97.5	97.5	97.5	97.5	97.7	97.7	97.7	97.7	97.7	97.7	97.7	97.7	97.7	97.7
7000	95.5	97.1	97.7	97.7	97.7	97.7	97.7	97.8	97.8	97.8	97.8	97.8	97.8	97.8	97.8	97.8
6000	96.9	97.9	98.1	98.1	98.1	98.1	98.3	98.3	98.3	98.3	98.3	98.3	98.3	98.3	98.3	98.3
5000	97.4	98.4	98.6	98.8	98.8	98.8	98.8	98.9	98.9	98.9	98.9	98.9	98.9	98.9	98.9	98.9
4500	97.5	98.5	98.8	98.9	98.9	98.9	98.9	99.0	99.0	99.0	99.0	99.0	99.0	99.0	99.0	99.0
4000	97.8	98.8	99.1	99.3	99.3	99.3	99.3	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4
3500	97.8	98.9	99.3	99.4	99.4	99.4	99.4	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5
3000	98.1	99.3	99.8	99.9	99.9	99.9	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
2500	98.1	99.3	99.8	99.9	99.9	99.9	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
2000	98.1	99.3	99.8	99.9	99.9	99.9	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
1800	98.1	99.3	99.8	99.9	99.9	99.9	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
1500	98.1	99.3	99.8	99.9	99.9	99.9	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
1200	98.1	99.3	99.8	99.9	99.9	99.9	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
1000	98.1	99.3	99.8	99.9	99.9	99.9	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
900	98.1	99.3	99.8	99.9	99.9	99.9	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
800	98.1	99.3	99.8	99.9	99.9	99.9	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
700	98.1	99.3	99.8	99.9	99.9	99.9	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
600	98.1	99.3	99.8	99.9	99.9	99.9	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
500	98.1	99.3	99.8	99.9	99.9	99.9	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
400	98.1	99.3	99.8	99.9	99.9	99.9	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
300	98.1	99.3	99.8	99.9	99.9	99.9	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
200	98.1	99.3	99.8	99.9	99.9	99.9	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
100	98.1	99.3	99.8	99.9	99.9	99.9	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
0	98.1	99.3	99.8	99.9	99.9	99.9	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

**TOTAL NUMBER OF OBSERVATIONS** 809

USAF ETAC FORM 0-14-3 (OL A) PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE

AL CLIMATOLOGY BRANCH  
ETAC  
WEATHER SERVICE/MAC

## CEILING VERSUS VISIBILITY

835 KATHER AFB CA

73-81

SEP

STATION

STATION NAME

YEARS

MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)

1800-2000  
HOURS (L.S.T.)

CEILING (FEET)	VISIBILITY STATUTE MILES															
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1¼	≥ 1	≥ ¾	≥ ½	≥ ¼	≥ 1/10	≥ 1/8	≥ 0
NO CEILING		46.2	85.5	86.7	87.2	87.3	87.3	87.7	87.7	87.7	87.7	87.7	87.7	87.7	87.7	87.7
≥ 25000		91.1	91.6	91.7	91.2	91.4	91.4	91.7	91.7	91.7	91.7	91.7	91.7	91.7	91.7	91.7
≥ 18000		91.2	91.7	91.9	91.4	91.5	91.5	91.9	91.9	91.9	91.9	91.9	91.9	91.9	91.9	91.9
≥ 16000		91.4	91.9	91.6	91.5	91.6	91.6	92.0	92.0	92.0	92.0	92.0	92.0	92.0	92.0	92.0
≥ 14000		91.7	91.2	91.4	91.9	92.7	92.7	92.3	92.3	92.3	92.3	92.3	92.3	92.3	92.3	92.3
≥ 12000		91.7	92.2	92.3	92.8	93.1	93.1	93.5	93.5	93.5	93.5	93.5	93.5	93.5	93.5	93.5
≥ 10000		93.6	94.1	94.2	94.7	94.9	94.9	95.3	95.3	95.3	95.3	95.3	95.3	95.3	95.3	95.3
≥ 9000		93.6	94.1	94.4	94.9	95.2	95.2	95.6	95.6	95.6	95.6	95.6	95.6	95.6	95.6	95.6
≥ 8000		94.9	95.4	95.8	96.3	96.5	96.5	96.9	96.9	96.9	96.9	96.9	96.9	96.9	96.9	96.9
≥ 7000		94.9	95.4	95.8	96.3	96.5	96.5	96.9	96.9	96.9	96.9	96.9	96.9	96.9	96.9	96.9
≥ 6000		95.6	96.7	96.4	96.9	97.2	97.2	97.5	97.5	97.5	97.5	97.5	97.5	97.5	97.5	97.5
≥ 5000		96.7	97.2	97.7	98.1	98.4	98.4	98.8	98.8	98.8	98.8	98.8	98.8	98.8	98.8	98.8
≥ 4500		96.8	97.3	97.8	98.3	98.5	98.5	98.9	98.9	98.9	98.9	98.9	98.9	98.9	98.9	98.9
≥ 4000		97.2	97.5	98.0	98.5	98.8	98.8	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1
≥ 3500		97.2	97.7	98.1	98.6	98.9	98.9	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3
≥ 3000		97.5	98.0	98.5	99.0	99.3	99.3	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6
≥ 2500		97.5	98.0	98.5	99.0	99.3	99.3	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6
≥ 2000		97.7	98.3	98.8	99.3	99.5	99.5	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9
≥ 1800		97.7	98.3	98.8	99.3	99.5	99.5	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9
≥ 1500		97.7	98.3	98.8	99.3	99.5	99.5	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9
≥ 1200		97.7	98.3	98.8	99.3	99.5	99.5	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9
≥ 1000		97.7	98.3	98.8	99.3	99.5	99.5	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9
≥ 900		97.7	98.3	98.8	99.4	99.6	99.6	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 800		97.7	98.3	98.8	99.4	99.6	99.6	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 700		97.7	98.3	98.8	99.4	99.6	99.6	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 600		97.7	98.3	98.8	99.4	99.6	99.6	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 500		97.7	98.3	98.8	99.4	99.6	99.6	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 400		97.7	98.3	98.8	99.4	99.6	99.6	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 300		97.7	98.3	98.8	99.4	99.6	99.6	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 200		97.7	98.3	98.8	99.4	99.6	99.6	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 100		97.7	98.3	98.8	99.4	99.6	99.6	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 0		97.7	98.3	98.8	99.4	99.6	99.6	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TOTAL NUMBER OF OBSERVATIONS 810

USAF ETAC FORM 0-14-5 (OL A) PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE

JOINT CLIMATOLOGY BRANCH  
USAF ETAC  
AIR WEATHER SERVICE/MAC

# CEILING VERSUS VISIBILITY

72-835

WATHER AFB CA

73-81

SEP

STATION

STATION NAME

YEARS

MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)

2100-2300  
HOURS (L.S.T.)

CEILING (FEET)	VISIBILITY STATUTE MILES															
	≥10	≥6	≥5	≥4	≥3	≥2½	≥2	≥1½	≥1¼	≥1	¾	¾	¾	¾	≥5/16	≥¼
NO CEILING		91.1	91.2	90.2	90.9	90.9	90.9	91.0	91.0	91.0	91.0	91.0	91.0	91.0	91.0	91.0
≥20000		91.1	91.1	91.1	91.7	91.7	91.7	91.7	91.9	91.9	91.9	91.9	91.9	91.9	91.9	91.9
≥18000		91.5	91.6	91.6	92.2	92.2	92.2	92.3	92.3	92.3	92.3	92.3	92.3	92.3	92.3	92.3
≥16000		91.5	91.6	91.6	92.2	92.2	92.2	92.3	92.3	92.3	92.3	92.3	92.3	92.3	92.3	92.3
≥14000		92.0	92.1	92.1	92.7	92.7	92.7	92.7	92.8	92.8	92.8	92.8	92.8	92.8	92.8	92.8
≥12000		93.0	93.1	93.1	93.7	93.7	93.7	93.7	93.8	93.8	93.8	93.8	93.8	93.8	93.8	93.8
≥10000		93.8	94.0	94.0	94.6	94.6	94.6	94.6	94.7	94.7	94.7	94.7	94.7	94.7	94.7	94.7
≥9000		93.8	94.0	94.0	94.6	94.6	94.6	94.6	94.7	94.7	94.7	94.7	94.7	94.7	94.7	94.7
≥8000		96.2	96.3	96.3	96.9	96.9	96.9	96.9	97.0	97.0	97.0	97.0	97.0	97.0	97.0	97.0
≥7000		96.2	96.3	96.3	96.9	96.9	96.9	96.9	97.0	97.0	97.0	97.0	97.0	97.0	97.0	97.0
≥6000		97.4	97.5	97.5	98.1	98.1	98.1	98.1	98.3	98.3	98.3	98.3	98.3	98.3	98.3	98.3
≥5000		98.3	98.5	98.5	99.1	99.1	99.1	99.1	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3
≥4500		98.4	98.6	98.6	99.3	99.3	99.3	99.3	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4
≥4000		98.5	98.6	98.6	99.4	99.4	99.4	99.4	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5
≥3500		98.8	99.3	99.3	99.6	99.6	99.6	99.6	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8
≥3000		98.8	99.3	99.3	99.6	99.6	99.6	99.6	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8
≥2500		98.8	99.3	99.3	99.6	99.6	99.6	99.6	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8
≥2000		98.9	99.1	99.1	99.8	99.8	99.8	99.8	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9
≥1800		99.0	99.3	99.3	99.9	99.9	99.9	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥1500		99.0	99.3	99.3	99.9	99.9	99.9	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥1200		99.0	99.3	99.3	99.9	99.9	99.9	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥1000		99.0	99.3	99.3	99.9	99.9	99.9	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥900		99.0	99.3	99.3	99.9	99.9	99.9	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥800		99.0	99.3	99.3	99.9	99.9	99.9	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥700		99.0	99.3	99.3	99.9	99.9	99.9	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥600		99.0	99.3	99.3	99.9	99.9	99.9	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥500		99.0	99.3	99.3	99.9	99.9	99.9	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥400		99.0	99.3	99.3	99.9	99.9	99.9	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥300		99.0	99.3	99.3	99.9	99.9	99.9	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥200		99.0	99.3	99.3	99.9	99.9	99.9	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥100		99.0	99.3	99.3	99.9	99.9	99.9	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥0		99.0	99.3	99.3	99.9	99.9	99.9	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TOTAL NUMBER OF OBSERVATIONS 810

CLIMATE CLIMATOLOGY BRANCH  
ETAC  
WEATHER SERVICE/MAC

## CEILING VERSUS VISIBILITY

14835 147HER AFB CA

73-81

SEP

STATION

STATION NAME

YEARS

MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)

ALL  
HOURS (L.A.T.)

CEILING (FEET)	VISIBILITY - STATUTE MILES															
	≥10	≥6	≥5	≥4	≥3	≥2½	≥2	≥1½	≥1¼	≥1	≥¾	≥½	≥¼	≥5/16	≥¼	≥0
NO CEILING		85.7	86.7	87.1	87.4	87.4	87.4	87.4	87.5	87.5	87.5	87.5	87.5	87.5	87.5	87.5
≥ 20000		88.4	89.3	89.7	90.0	90.0	90.0	90.1	90.1	90.1	90.1	90.1	90.1	90.1	90.1	90.1
≥ 18000		88.7	89.6	90.0	90.3	90.3	90.3	90.4	90.4	90.4	90.4	90.4	90.4	90.4	90.4	90.4
≥ 16000		88.7	89.7	90.1	90.4	90.4	90.4	90.4	90.5	90.5	90.5	90.5	90.5	90.5	90.5	90.5
≥ 14000		89.6	90.5	90.9	91.2	91.2	91.2	91.3	91.3	91.3	91.3	91.3	91.3	91.3	91.3	91.3
≥ 12000		91.3	92.2	92.6	92.9	93.0	93.0	93.0	93.0	93.0	93.0	93.0	93.0	93.0	93.0	93.0
≥ 10000		92.3	93.2	93.7	94.0	94.0	94.0	94.1	94.1	94.1	94.1	94.1	94.1	94.1	94.1	94.1
≥ 9000		92.5	93.4	93.9	94.2	94.2	94.2	94.3	94.3	94.3	94.3	94.3	94.3	94.3	94.3	94.3
≥ 8000		93.5	94.5	95.0	95.3	95.3	95.3	95.4	95.4	95.4	95.4	95.4	95.4	95.4	95.4	95.4
≥ 7000		93.5	94.5	95.0	95.3	95.4	95.4	95.4	95.4	95.4	95.4	95.4	95.4	95.4	95.4	95.4
≥ 6000		94.2	95.2	95.7	96.0	96.1	96.1	96.1	96.1	96.1	96.1	96.1	96.1	96.1	96.1	96.1
≥ 5000		95.1	96.1	96.7	97.0	97.1	97.1	97.1	97.1	97.1	97.1	97.1	97.1	97.1	97.1	97.1
≥ 4500		95.6	96.6	97.2	97.5	97.6	97.6	97.6	97.6	97.6	97.6	97.6	97.6	97.6	97.6	97.6
≥ 4000		95.8	96.9	97.5	97.9	97.9	97.9	98.0	98.0	98.0	98.0	98.0	98.0	98.0	98.0	98.0
≥ 3500		96.1	97.2	97.7	98.1	98.1	98.1	98.2	98.2	98.2	98.2	98.2	98.2	98.2	98.2	98.2
≥ 3000		96.5	97.6	98.2	98.6	98.6	98.6	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7
≥ 2500		96.5	97.6	98.2	98.6	98.6	98.6	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7
≥ 2000		96.7	97.8	98.4	98.8	98.8	98.8	98.9	98.9	98.9	98.9	98.9	98.9	98.9	98.9	98.9
≥ 1800		96.8	97.9	98.6	98.9	99.0	99.0	99.0	99.0	99.0	99.0	99.0	99.0	99.0	99.0	99.0
≥ 1500		97.0	98.1	98.8	99.1	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2
≥ 1200		97.2	98.4	99.0	99.4	99.4	99.4	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5
≥ 1000		97.3	98.5	99.1	99.5	99.5	99.5	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6
≥ 900		97.4	98.5	99.2	99.6	99.6	99.6	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7
≥ 800		97.4	98.6	99.2	99.6	99.6	99.6	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8
≥ 700		97.5	98.7	99.3	99.7	99.7	99.7	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8
≥ 600		97.5	98.7	99.3	99.7	99.7	99.7	99.8	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9
≥ 500		97.5	98.7	99.3	99.7	99.7	99.7	99.8	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9
≥ 400		97.5	98.7	99.4	99.7	99.8	99.8	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9
≥ 300		97.5	98.7	99.4	99.8	99.8	99.8	99.9	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 200		97.5	98.7	99.4	99.8	99.8	99.8	99.9	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 100		97.6	98.7	99.4	99.8	99.8	99.8	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 0		97.6	98.7	99.4	99.8	99.8	99.8	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TOTAL NUMBER OF OBSERVATIONS

6477

CLIMATE CLIMATOLOGY BRANCH  
USAFETAC  
AF WEATHER SERVICE/MAC

## CEILING VERSUS VISIBILITY

074835

WATHER AFB CA

73-81

OCT

STATION

STATION NAME

YEAR

MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)

2000-0200

HOURS (L.S.T.)

CEILING (FEET)	VISIBILITY STATUTE MILES															
	≥10	≥8	≥6	≥4	≥3	≥2½	≥2	≥1½	≥1¼	≥1	≥¾	≥½	≥¼	≥1/8	≥1/16	≥0
NO CEILING		77.6	82.8	83.8	83.6	83.6	83.6	83.6	83.6	83.9	83.9	83.9	83.9	83.9	83.9	83.9
≥ 20000		81.1	83.5	84.3	85.2	85.2	85.2	85.2	85.2	85.4	85.4	85.4	85.4	85.4	85.4	85.4
≥ 18000		81.2	83.6	84.5	85.3	85.3	85.3	85.3	85.3	85.5	85.5	85.5	85.5	85.5	85.5	85.5
≥ 16000		81.2	83.6	84.7	85.5	85.5	85.5	85.5	85.5	85.8	85.8	85.8	85.8	85.8	85.8	85.8
≥ 14000		81.8	84.2	85.3	86.1	86.1	86.1	86.1	86.1	86.4	86.4	86.4	86.4	86.4	86.4	86.4
≥ 12000		84.2	86.6	87.7	88.6	88.6	88.6	88.6	88.6	88.9	88.9	88.9	88.9	88.9	88.9	88.9
≥ 10000		85.8	88.2	89.4	90.3	90.3	90.3	90.3	90.3	90.6	90.6	90.6	90.6	90.6	90.6	90.6
≥ 9000		85.8	88.2	89.4	90.3	90.3	90.3	90.3	90.3	90.6	90.6	90.6	90.6	90.6	90.6	90.6
≥ 8000		86.6	89.0	90.2	91.2	91.2	91.2	91.2	91.2	91.4	91.4	91.4	91.4	91.4	91.4	91.4
≥ 7000		86.7	89.1	90.3	91.3	91.3	91.3	91.3	91.3	91.5	91.5	91.5	91.5	91.5	91.5	91.5
≥ 6000		88.1	90.4	91.6	92.6	92.7	92.7	92.7	92.7	93.0	93.0	93.0	93.0	93.0	93.0	93.0
≥ 5000		88.6	91.2	92.4	93.3	93.4	93.4	93.4	93.4	93.7	93.7	93.7	93.7	93.7	93.7	93.7
≥ 4500		89.4	92.7	93.2	94.1	94.3	94.3	94.3	94.3	94.5	94.5	94.5	94.5	94.5	94.5	94.5
≥ 4000		90.3	93.1	94.3	95.2	95.3	95.3	95.3	95.3	95.6	95.6	95.6	95.6	95.6	95.6	95.6
≥ 3500		90.9	93.8	95.1	96.1	96.2	96.2	96.2	96.2	96.4	96.4	96.4	96.4	96.4	96.4	96.4
≥ 3000		91.9	94.7	96.1	97.0	97.1	97.1	97.1	97.1	97.4	97.4	97.4	97.4	97.4	97.4	97.4
≥ 2500		91.9	94.7	96.2	97.4	97.5	97.5	97.5	97.5	97.7	97.7	97.7	97.7	97.7	97.7	97.7
≥ 2000		92.2	95.1	96.7	97.8	98.0	98.0	98.1	98.1	98.3	98.3	98.3	98.3	98.3	98.3	98.3
≥ 1800		92.2	95.1	96.7	97.8	98.0	98.1	98.2	98.2	98.4	98.4	98.4	98.4	98.4	98.4	98.4
≥ 1500		92.5	95.3	96.9	98.1	98.2	98.3	98.4	98.4	98.7	98.7	98.7	98.7	98.7	98.7	98.7
≥ 1200		92.5	95.6	97.1	98.3	98.4	98.6	98.7	98.7	98.9	98.9	98.9	98.9	98.9	98.9	98.9
≥ 1000		92.7	95.8	97.4	98.6	98.8	98.9	99.0	99.0	99.3	99.3	99.3	99.3	99.3	99.3	99.3
≥ 900		92.8	95.9	97.5	98.8	99.0	99.2	99.3	99.3	99.5	99.5	99.5	99.5	99.5	99.5	99.5
≥ 800		92.8	95.9	97.5	98.8	99.0	99.2	99.3	99.3	99.5	99.5	99.5	99.5	99.5	99.5	99.5
≥ 700		93.1	96.1	97.6	99.0	99.3	99.4	99.5	99.5	99.8	99.8	99.8	99.8	99.8	99.8	99.8
≥ 600		93.0	96.1	97.6	99.0	99.3	99.4	99.5	99.5	99.8	99.8	99.8	99.8	99.8	99.8	99.8
≥ 500		93.0	96.1	97.6	99.0	99.3	99.4	99.6	99.6	99.9	99.9	99.9	99.9	99.9	99.9	99.9
≥ 400		93.0	96.1	97.6	99.0	99.4	99.5	99.8	99.8	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 300		93.0	96.1	97.6	99.0	99.4	99.5	99.8	99.8	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 200		93.0	96.1	97.6	99.0	99.4	99.5	99.8	99.8	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 100		93.0	96.1	97.6	99.0	99.4	99.5	99.8	99.8	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 0		93.1	96.1	97.6	99.0	99.4	99.5	99.8	99.8	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TOTAL NUMBER OF OBSERVATIONS 837

JOINT CLIMATOLOGY BRANCH  
USAF ETAC  
AIR WEATHER SERVICE/MAC

# CEILING VERSUS VISIBILITY

70-835

MATHER AFB CA

73-81

OCT

STATION

STATION NAME

YEARS

MONTH

## PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

0300-0500  
HOURS (L.S.T.)

CEILING (FEET)	VISIBILITY - STATUTE MILES															
	≥10	≥6	≥5	≥4	≥3	≥2½	≥2	≥1½	≥1¼	≥1	≥¾	≥½	≥¼	≥1/16	≥0	≥0
NO CEILING		77.7	81.6	83.3	84.8	85.1	85.3	85.4	85.4	85.5	85.5	85.5	85.5	85.5	85.5	85.5
≥20000		79.2	81.6	83.3	84.8	85.1	85.3	85.4	85.4	85.5	85.5	85.5	85.5	85.5	85.5	85.5
≥18000		79.5	81.8	83.5	85.1	85.3	85.5	85.7	85.7	85.8	85.8	85.8	85.8	85.8	85.8	85.8
≥16000		79.8	82.2	83.9	85.4	85.7	85.9	86.0	86.0	86.1	86.1	86.1	86.1	86.1	86.1	86.1
≥14000		80.8	83.2	84.8	86.4	86.6	86.9	87.0	87.0	87.1	87.1	87.1	87.1	87.1	87.1	87.1
≥12000		82.7	85.1	86.7	88.3	88.5	88.8	88.9	88.9	89.0	89.0	89.0	89.0	89.0	89.0	89.0
≥10000		84.6	87.2	88.9	90.4	90.7	90.9	91.0	91.0	91.2	91.2	91.2	91.2	91.2	91.2	91.2
≥8000		84.6	87.2	88.9	90.4	90.7	90.9	91.0	91.0	91.2	91.2	91.2	91.2	91.2	91.2	91.2
≥7000		85.2	87.8	89.5	91.0	91.3	91.5	91.6	91.6	91.8	91.8	91.8	91.8	91.8	91.8	91.8
≥6000		85.3	87.9	89.6	91.2	91.4	91.6	91.8	91.8	91.9	91.9	91.9	91.9	91.9	91.9	91.9
≥5000		86.3	89.1	90.8	92.4	92.6	92.8	93.0	93.0	93.1	93.1	93.1	93.1	93.1	93.1	93.1
≥4500		87.0	89.8	91.5	93.1	93.3	93.5	93.7	93.7	93.8	93.8	93.8	93.8	93.8	93.8	93.8
≥4000		87.5	90.3	92.0	93.5	93.8	94.0	94.1	94.1	94.3	94.3	94.3	94.3	94.3	94.3	94.3
≥3500		88.3	91.3	93.0	94.5	94.7	95.0	95.1	95.1	95.2	95.2	95.2	95.2	95.2	95.2	95.2
≥3000		88.4	91.4	93.3	95.0	95.2	95.5	95.6	95.6	95.7	95.7	95.7	95.7	95.7	95.7	95.7
≥2500		89.1	92.2	94.1	95.8	96.1	96.3	96.4	96.4	96.5	96.5	96.5	96.5	96.5	96.5	96.5
≥2000		89.2	92.4	94.3	95.9	96.2	96.4	96.5	96.5	96.7	96.7	96.7	96.7	96.7	96.7	96.7
≥1800		89.7	93.0	94.9	96.8	97.0	97.4	97.5	97.5	97.6	97.6	97.6	97.6	97.6	97.6	97.6
≥1600		89.8	93.1	95.0	96.9	97.1	97.5	97.6	97.6	97.7	97.7	97.7	97.7	97.7	97.7	97.7
≥1500		90.0	93.2	95.1	97.1	97.5	97.8	98.0	98.0	98.1	98.1	98.1	98.1	98.1	98.1	98.1
≥1200		90.1	93.3	95.2	97.4	97.7	98.1	98.2	98.2	98.3	98.3	98.3	98.3	98.3	98.3	98.3
≥1000		90.3	93.7	95.7	97.8	98.2	98.6	98.7	98.7	98.8	98.8	98.8	98.8	98.8	98.8	98.8
≥900		90.6	93.9	95.9	98.1	98.6	98.9	99.0	99.0	99.2	99.2	99.2	99.2	99.2	99.2	99.2
≥800		90.6	93.9	95.9	98.1	98.6	98.9	99.0	99.0	99.2	99.2	99.2	99.2	99.2	99.2	99.2
≥700		90.6	93.9	95.9	98.1	98.6	98.9	99.0	99.0	99.2	99.2	99.2	99.2	99.2	99.2	99.2
≥600		90.6	93.9	95.9	98.1	98.6	98.9	99.0	99.0	99.2	99.2	99.2	99.2	99.2	99.2	99.2
≥500		90.8	94.1	96.2	98.4	99.2	99.5	99.6	99.6	99.8	99.8	99.8	99.8	99.8	99.8	99.8
≥400		90.8	94.1	96.2	98.4	99.2	99.5	99.6	99.6	99.8	99.8	99.8	99.8	99.8	99.8	99.8
≥300		90.8	94.1	96.2	98.4	99.3	99.8	99.9	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥200		90.8	94.1	96.2	98.4	99.3	99.8	99.9	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥100		90.8	94.1	96.2	98.4	99.3	99.8	99.9	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥0		90.8	94.1	96.2	98.4	99.3	99.8	99.9	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TOTAL NUMBER OF OBSERVATIONS 837



GLOBAL CLIMATOLOGY BRANCH  
USAF ETAC  
AFS WEATHER SERVICE/MAC

## CEILING VERSUS VISIBILITY

724835  
STATION

MATHER AFB CA  
STATION NAME

73-81  
YEARS

OCT  
MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)

0600-0800  
HOURS (L.S.T.)

CEILING (FEET)	VISIBILITY STATUTE MILES															
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1¼	≥ 1	≥ ¾	≥ ½	≥ ¼	≥ 5/16	≥ ¼	≥ 0
NO CEILING		62.1	68.7	73.0	76.6	77.5	77.8	78.3	78.4	78.4	78.4	78.4	78.4	78.4	78.4	78.4
≥ 20000		66.3	73.1	77.4	81.0	82.0	82.3	82.8	82.9	82.9	82.9	82.9	82.9	82.9	82.9	82.9
≥ 18000		66.4	73.2	77.5	81.1	82.1	82.4	82.9	83.0	83.0	83.0	83.0	83.0	83.0	83.0	83.0
≥ 16000		66.7	73.5	77.8	81.4	82.3	82.7	83.2	83.3	83.3	83.3	83.3	83.3	83.3	83.3	83.3
≥ 14000		67.9	74.7	79.1	82.9	83.9	84.2	84.7	84.8	84.8	84.8	84.8	84.8	84.8	84.8	84.8
≥ 12000		69.8	76.6	81.2	85.2	86.1	86.5	87.0	87.1	87.1	87.1	87.1	87.1	87.1	87.1	87.1
≥ 10000		71.8	78.6	83.3	87.2	88.2	88.8	89.2	89.4	89.4	89.4	89.4	89.4	89.4	89.4	89.4
≥ 9000		72.0	78.9	83.5	87.5	88.4	89.0	89.5	89.6	89.6	89.6	89.6	89.6	89.6	89.6	89.6
≥ 8000		72.8	79.6	84.2	88.2	89.1	89.7	90.2	90.3	90.3	90.3	90.3	90.3	90.3	90.3	90.3
≥ 7000		73.1	79.9	84.6	88.5	89.5	90.1	90.6	90.7	90.7	90.7	90.7	90.7	90.7	90.7	90.7
≥ 6000		74.0	80.9	85.7	89.6	90.6	91.2	91.8	91.9	91.9	91.9	91.9	91.9	91.9	91.9	91.9
≥ 5000		74.7	81.7	86.5	90.4	91.5	92.1	92.7	92.8	92.8	92.8	92.8	92.8	92.8	92.8	92.8
≥ 4500		75.7	82.8	87.6	91.5	92.6	93.2	93.8	93.9	93.9	93.9	93.9	93.9	93.9	93.9	93.9
≥ 4000		76.3	83.5	88.3	92.2	93.3	93.9	94.5	94.6	94.6	94.6	94.6	94.6	94.6	94.6	94.6
≥ 3500		76.5	83.6	88.4	92.4	93.4	94.0	94.6	94.7	94.7	94.7	94.7	94.7	94.7	94.7	94.7
≥ 3000		76.6	83.8	88.6	92.6	93.7	94.4	95.0	95.1	95.1	95.1	95.1	95.1	95.1	95.1	95.1
≥ 2500		76.8	84.1	89.0	93.0	94.0	94.7	95.3	95.5	95.5	95.5	95.5	95.5	95.5	95.5	95.5
≥ 2000		77.2	84.5	89.5	93.5	94.6	95.3	95.9	96.1	96.1	96.1	96.1	96.1	96.1	96.1	96.1
≥ 1800		77.3	84.6	89.6	93.7	94.7	95.5	96.1	96.2	96.2	96.2	96.2	96.2	96.2	96.2	96.2
≥ 1600		77.8	85.1	90.2	94.3	95.3	96.1	96.7	96.8	96.8	96.8	96.8	96.8	96.8	96.8	96.8
≥ 1400		78.3	85.8	91.2	95.3	96.4	97.3	97.8	98.0	98.0	98.0	98.0	98.0	98.0	98.0	98.0
≥ 1200		78.5	86.0	91.6	95.8	97.0	97.8	98.4	98.6	98.6	98.6	98.6	98.6	98.6	98.6	98.6
≥ 1000		78.5	86.0	91.6	95.8	97.0	97.8	98.6	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7
≥ 900		78.5	86.0	91.6	95.9	97.1	98.0	98.7	98.8	98.8	98.8	98.8	98.8	98.8	98.8	98.8
≥ 800		78.5	86.0	91.6	95.9	97.1	98.0	98.7	98.8	98.8	98.8	98.8	98.8	98.8	98.8	98.8
≥ 700		78.5	86.1	91.9	96.2	97.4	98.2	98.9	99.0	99.0	99.0	99.0	99.0	99.0	99.0	99.0
≥ 600		78.6	86.3	92.0	96.3	97.5	98.3	99.0	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2
≥ 500		78.6	86.4	92.1	96.4	97.6	98.4	99.2	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3
≥ 400		78.6	86.4	92.1	96.4	97.6	98.4	99.3	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5
≥ 300		78.6	86.4	92.1	96.4	97.6	98.4	99.5	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8
≥ 200		78.6	86.4	92.1	96.4	97.6	98.4	99.5	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8
≥ 100		78.6	86.4	92.1	96.4	97.6	98.4	99.5	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8
≥ 0		78.6	86.4	92.1	96.4	97.6	98.4	99.5	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8

TOTAL NUMBER OF OBSERVATIONS 837

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AF WEATHER SERVICE/MAC

## CEILING VERSUS VISIBILITY

STATION  
024835

STATION NAME  
MATHER AFB CA

YEARS  
73-81

MONTH  
OCT

PERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)

MONTH  
0900-1100  
HOURS (L.S.T.)

CEILING (FEET)	VISIBILITY STATUTE MILES															
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1¼	≥ 1	≥ ¾	≥ ½	≥ ¼	≥ 1/16	≥ 0	≥ 0
NO CEILING		63.9	75.1	77.5	78.9	79.2	80.2	80.4	80.4	80.4	80.4	80.4	80.4	80.4	80.4	80.4
≥ 20000		73.4	87.2	82.6	84.	84.3	85.4	85.5	85.5	85.5	85.5	85.5	85.5	85.5	85.5	85.5
≥ 18000		73.7	87.5	82.9	84.3	84.6	85.6	85.7	85.7	85.7	85.7	85.7	85.7	85.7	85.7	85.7
≥ 16000		73.7	80.5	82.9	84.3	84.6	85.6	85.7	85.7	85.7	85.7	85.7	85.7	85.7	85.7	85.7
≥ 14000		75.1	81.9	84.3	85.7	86.0	87.1	87.2	87.2	87.2	87.2	87.2	87.2	87.2	87.2	87.2
≥ 12000		77.0	84.0	86.3	87.8	88.0	89.1	89.2	89.2	89.2	89.2	89.2	89.2	89.2	89.2	89.2
≥ 10000		78.6	85.6	88.1	89.6	89.8	90.9	91.0	91.0	91.0	91.0	91.0	91.0	91.0	91.0	91.0
≥ 9000		79.0	86.1	88.6	90.1	90.3	91.4	91.5	91.5	91.5	91.5	91.5	91.5	91.5	91.5	91.5
≥ 8000		79.3	86.5	89.0	90.4	90.7	91.7	91.9	91.9	91.9	91.9	91.9	91.9	91.9	91.9	91.9
≥ 7000		79.8	86.9	89.5	90.9	91.1	92.2	92.3	92.3	92.3	92.3	92.3	92.3	92.3	92.3	92.3
≥ 6000		79.9	87.1	89.8	91.3	91.5	92.6	92.8	92.8	92.8	92.8	92.8	92.8	92.8	92.8	92.8
≥ 5000		81.3	88.1	90.9	92.3	92.6	93.7	93.9	93.9	93.9	93.9	93.9	93.9	93.9	93.9	93.9
≥ 4500		81.3	88.5	91.4	92.8	93.1	94.1	94.4	94.4	94.4	94.4	94.4	94.4	94.4	94.4	94.4
≥ 4000		82.3	89.5	92.3	93.8	94.1	95.2	95.4	95.4	95.4	95.4	95.4	95.4	95.4	95.4	95.4
≥ 3500		82.5	89.7	92.6	94.0	94.4	95.4	95.7	95.7	95.7	95.7	95.7	95.7	95.7	95.7	95.7
≥ 3000		83.1	90.3	93.2	94.6	95.1	96.2	96.4	96.4	96.4	96.4	96.4	96.4	96.4	96.4	96.4
≥ 2500		83.2	90.4	93.3	94.7	95.2	96.3	96.5	96.5	96.5	96.5	96.5	96.5	96.5	96.5	96.5
≥ 2000		83.6	90.8	93.7	95.1	95.6	96.8	97.0	97.0	97.0	97.0	97.0	97.0	97.0	97.0	97.0
≥ 1800		83.6	90.9	93.8	95.2	95.7	96.9	97.1	97.1	97.1	97.1	97.1	97.1	97.1	97.1	97.1
≥ 1500		84.1	91.6	94.6	96.0	96.5	97.7	98.1	98.1	98.1	98.1	98.1	98.1	98.1	98.1	98.1
≥ 1200		84.6	92.1	95.1	96.5	97.0	98.2	98.6	98.6	98.6	98.6	98.6	98.6	98.6	98.6	98.6
≥ 1000		84.7	92.2	95.2	96.6	97.1	98.3	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7
≥ 900		84.7	92.3	95.3	96.8	97.2	98.4	98.8	98.8	98.8	98.8	98.8	98.8	98.8	98.8	98.8
≥ 800		84.7	92.3	95.4	97.0	97.5	98.7	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4
≥ 700		84.7	92.5	95.6	97.2	97.7	98.9	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6
≥ 600		84.7	92.5	95.6	97.2	97.7	98.9	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6
≥ 500		84.7	92.5	95.6	97.2	97.7	98.9	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6
≥ 400		84.7	92.5	95.6	97.2	97.7	99.0	99.8	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9
≥ 300		84.7	92.5	95.6	97.2	97.7	99.0	99.8	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9
≥ 200		84.7	92.5	95.6	97.2	97.7	99.0	99.8	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9
≥ 100		84.7	92.5	95.6	97.2	97.7	99.0	99.8	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9
≥ 0		84.7	92.5	95.6	97.2	97.7	99.0	99.8	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9

TOTAL NUMBER OF OBSERVATIONS 835

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AF WEATHER SERVICE/HAC

## CEILING VERSUS VISIBILITY

12-935

MATHER AFB CA

73-61

OCT

STATION

STATION NAME

YEARS

MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)

1220-1400  
HOURS (L.S.T.)

CEILING (FEET)	VISIBILITY STATUTE MILES															
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1¼	≥ 1	≥ ¾	≥ ½	≥ ¼	≥ 5/16	≥ 4	≥ 3
NO CEILING		66.4	71.2	74.0	74.7	74.8	75.0	75.0	75.3	75.3	75.4	75.4	75.4	75.4	75.4	75.4
≥ 20000		74.3	79.5	82.7	83.5	83.6	84.0	84.0	84.2	84.2	84.3	84.3	84.3	84.3	84.3	84.3
≥ 18000		74.3	79.9	83.2	84.7	84.1	84.5	84.7	84.7	84.8	84.8	84.8	84.8	84.8	84.8	84.8
≥ 16000		74.6	81.3	83.5	84.3	84.5	84.8	84.8	85.1	85.1	85.2	85.2	85.2	85.2	85.2	85.2
≥ 14000		76.2	82.7	85.2	86.0	86.1	86.5	86.5	86.7	86.7	86.9	86.9	86.9	86.9	86.9	86.9
≥ 12000		78.3	84.1	87.3	88.2	88.3	88.6	88.6	88.9	88.9	89.0	89.0	89.0	89.0	89.0	89.0
≥ 10000		79.8	85.7	88.9	89.7	89.8	90.2	90.2	90.4	90.4	90.6	90.6	90.6	90.6	90.6	90.6
≥ 9500		80.4	86.3	89.5	90.3	90.4	90.8	90.8	91.0	91.0	91.2	91.2	91.2	91.2	91.2	91.2
≥ 8000		81.6	87.8	91.0	91.9	92.0	92.4	92.4	92.6	92.6	92.7	92.7	92.7	92.7	92.7	92.7
≥ 7000		82.3	88.5	91.9	92.7	92.8	93.2	93.2	93.4	93.4	93.5	93.5	93.5	93.5	93.5	93.5
≥ 6000		82.7	88.9	92.2	93.1	93.2	93.5	93.5	93.8	93.8	93.9	93.9	93.9	93.9	93.9	93.9
≥ 5000		83.8	90.1	93.4	94.3	94.4	94.7	94.7	95.0	95.0	95.1	95.1	95.1	95.1	95.1	95.1
≥ 4500		84.2	90.6	93.9	94.7	94.9	95.2	95.2	95.5	95.5	95.6	95.6	95.6	95.6	95.6	95.6
≥ 4000		85.2	91.5	94.9	95.7	95.9	96.3	96.3	96.5	96.5	96.7	96.7	96.7	96.7	96.7	96.7
≥ 3500		85.8	92.1	95.5	96.3	96.5	96.9	96.9	97.1	97.1	97.3	97.3	97.3	97.3	97.3	97.3
≥ 3000		86.4	92.7	96.2	97.0	97.3	97.6	97.6	97.8	97.8	98.0	98.0	98.0	98.0	98.0	98.0
≥ 2500		87.1	93.4	96.9	97.7	98.0	98.3	98.3	98.6	98.6	98.7	98.7	98.7	98.7	98.7	98.7
≥ 2000		87.2	93.5	97.0	97.8	98.1	98.4	98.4	98.7	98.7	98.8	98.8	98.8	98.8	98.8	98.8
≥ 1800		87.2	93.8	97.3	98.1	98.3	98.7	98.7	98.9	98.9	99.0	99.0	99.0	99.0	99.0	99.0
≥ 1500		87.2	93.8	97.3	98.1	98.3	98.7	98.7	98.9	98.9	99.0	99.0	99.0	99.0	99.0	99.0
≥ 1200		87.3	93.9	97.4	98.2	98.4	98.8	98.8	99.0	99.0	99.2	99.2	99.2	99.2	99.2	99.2
≥ 1000		87.5	94.1	97.5	98.3	98.6	98.9	98.9	99.2	99.2	99.3	99.3	99.3	99.3	99.3	99.3
≥ 900		87.6	94.1	97.6	98.4	98.7	99.0	99.0	99.3	99.3	99.4	99.4	99.4	99.4	99.4	99.4
≥ 800		87.6	94.1	97.6	98.6	98.8	99.2	99.2	99.4	99.4	99.5	99.5	99.5	99.5	99.5	99.5
≥ 700		87.6	94.3	97.7	98.8	99.0	99.4	99.4	99.6	99.6	99.8	99.8	99.8	99.8	99.8	99.8
≥ 600		87.6	94.3	97.7	98.8	99.0	99.4	99.5	99.9	99.9	100.0	100.0	100.0	100.0	100.0	100.0
≥ 500		87.6	94.3	97.7	98.8	99.0	99.4	99.5	99.9	99.9	100.0	100.0	100.0	100.0	100.0	100.0
≥ 400		87.6	94.3	97.7	98.8	99.0	99.4	99.5	99.9	99.9	100.0	100.0	100.0	100.0	100.0	100.0
≥ 300		87.6	94.3	97.7	98.8	99.0	99.4	99.5	99.9	99.9	100.0	100.0	100.0	100.0	100.0	100.0
≥ 200		87.6	94.3	97.7	98.8	99.0	99.4	99.5	99.9	99.9	100.0	100.0	100.0	100.0	100.0	100.0
≥ 100		87.6	94.3	97.7	98.8	99.0	99.4	99.5	99.9	99.9	100.0	100.0	100.0	100.0	100.0	100.0
≥ 0		87.6	94.3	97.7	98.8	99.0	99.4	99.5	99.9	99.9	100.0	100.0	100.0	100.0	100.0	100.0

TOTAL NUMBER OF OBSERVATIONS 837

LOCAL CLIMATOLOGY BRANCH  
AF/ETAC  
AF WEATHER SERVICE/MAC

## CEILING VERSUS VISIBILITY

STATION  
14835

STATION NAME  
WATHER AFB CA

YEARS  
73-81

MONTH  
OCT

PERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)

1500-1700  
HOURS (L.S.T.)

CEILING (FEET)	VISIBILITY STATUTE MILES															
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1¼	≥ 1	≥ ¾	≥ ½	≥ ¼	≥ 1/10	≥ 1/8	≥ 0
NO CEILING		65.2	74.2	76.0	77.3	77.5	77.5	78.0	78.0	78.0	78.0	78.0	78.0	78.0	78.0	78.0
≥ 25000		74.8	81.2	83.6	85.1	85.3	85.4	85.9	85.9	85.9	85.9	85.9	85.9	85.9	85.9	85.9
≥ 18000		75.7	81.5	83.9	85.3	85.5	85.7	86.1	86.1	86.1	86.1	86.1	86.1	86.1	86.1	86.1
≥ 16000		75.1	81.6	84.0	85.4	85.7	85.8	86.3	86.3	86.3	86.3	86.3	86.3	86.3	86.3	86.3
≥ 14000		76.6	83.2	85.5	87.0	87.2	87.3	87.8	87.8	87.8	87.8	87.8	87.8	87.8	87.8	87.8
≥ 12000		75.1	84.9	87.3	88.8	89.0	89.1	89.6	89.6	89.6	89.6	89.6	89.6	89.6	89.6	89.6
≥ 10000		79.7	86.5	89.0	90.6	90.8	90.9	91.4	91.4	91.4	91.4	91.4	91.4	91.4	91.4	91.4
≥ 9000		79.9	86.7	89.2	90.8	91.0	91.2	91.6	91.6	91.6	91.6	91.6	91.6	91.6	91.6	91.6
≥ 8000		82.2	89.0	91.5	93.1	93.3	93.4	93.9	93.9	93.9	93.9	93.9	93.9	93.9	93.9	93.9
≥ 7000		82.9	89.7	92.2	93.8	94.0	94.1	94.6	94.6	94.6	94.6	94.6	94.6	94.6	94.6	94.6
≥ 6000		84.3	91.2	93.8	95.3	95.6	95.7	96.2	96.2	96.2	96.2	96.2	96.2	96.2	96.2	96.2
≥ 5000		85.5	92.4	95.0	96.5	96.8	96.9	97.4	97.4	97.4	97.4	97.4	97.4	97.4	97.4	97.4
≥ 4500		85.8	92.6	95.2	96.8	97.0	97.1	97.6	97.6	97.6	97.6	97.6	97.6	97.6	97.6	97.6
≥ 4000		86.5	93.5	96.2	97.7	98.0	98.1	98.6	98.6	98.6	98.6	98.6	98.6	98.6	98.6	98.6
≥ 3500		86.6	93.7	96.3	97.8	98.1	98.2	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7
≥ 3000		87.2	94.4	97.0	98.6	98.8	98.9	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4
≥ 2500		87.2	94.4	97.0	98.6	98.8	98.9	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4
≥ 2000		87.2	94.4	97.0	98.6	98.8	98.9	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4
≥ 1800		87.3	94.5	97.1	98.7	98.9	99.0	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5
≥ 1500		87.3	94.5	97.1	98.7	98.9	99.0	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5
≥ 1200		87.5	94.6	97.3	98.8	99.0	99.2	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6
≥ 1000		87.5	94.6	97.3	98.8	99.0	99.2	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6
≥ 900		87.5	94.6	97.3	98.8	99.0	99.2	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6
≥ 800		87.6	94.7	97.4	98.9	99.2	99.3	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8
≥ 700		87.6	94.7	97.4	98.9	99.2	99.3	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8
≥ 600		87.6	94.7	97.5	99.2	99.4	99.5	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 500		87.6	94.7	97.5	99.2	99.4	99.5	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 400		87.6	94.7	97.5	99.2	99.4	99.5	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 300		87.6	94.7	97.5	99.2	99.4	99.5	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 200		87.6	94.7	97.5	99.2	99.4	99.5	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 100		87.6	94.7	97.5	99.2	99.4	99.5	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 0		87.6	94.7	97.5	99.2	99.4	99.5	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TOTAL NUMBER OF OBSERVATIONS 837

GLOBAL CLIMATOLOGY BRANCH  
AF/ETAC  
AIR WEATHER SERVICE/MAC

# CEILING VERSUS VISIBILITY

14835  
STATION

MATHER AFB CA  
STATION NAME

73-81  
YEARS

OCT  
MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)

1800-2000  
HOURS (L.S.T.)

CEILING (FEET)	VISIBILITY STATUTE MILES															
	≥10	≥6	≥5	≥4	≥3	≥2½	≥2	≥1½	≥1¼	≥1	≥¾	≥½	≥¼	≥1/8	≥1/16	≥0
NO RECORD		75.0	72.4	68.4	61.5	51.5	41.6	31.8	21.8	11.9	61.2	51.3	41.8	31.8	21.8	11.8
≥27000		75.4	61.2	53.3	44.3	34.3	24.5	14.7	54.7	44.7	34.7	24.7	14.7	44.7	34.7	24.7
≥18000		75.7	61.6	53.6	44.7	34.7	24.8	15.1	65.1	55.1	45.1	35.1	25.1	15.1	45.1	35.1
≥15000		78.1	61.8	53.9	45.1	35.1	25.2	15.4	65.4	55.4	45.4	35.4	25.4	15.4	45.4	35.4
≥14000		81.3	63.2	55.2	46.4	36.4	26.5	16.7	66.7	56.7	46.7	36.7	26.7	16.7	46.7	36.7
≥12000		83.2	66.1	58.2	49.4	39.4	29.5	19.7	69.7	59.7	49.7	39.7	29.7	19.7	49.7	39.7
≥10000		84.3	67.5	59.5	50.7	40.7	30.8	20.8	71.8	61.8	51.8	41.8	31.8	21.8	51.8	41.8
≥9000		84.7	67.9	59.8	51.0	41.0	31.2	21.4	71.4	61.4	51.4	41.4	31.4	21.4	51.4	41.4
≥8000		86.7	69.1	61.2	52.4	42.4	32.5	22.7	72.7	62.7	52.7	42.7	32.7	22.7	52.7	42.7
≥7000		87.0	70.1	62.1	53.3	43.3	33.4	23.7	73.7	63.7	53.7	43.7	33.7	23.7	53.7	43.7
≥6000		89.1	72.2	64.4	55.8	45.8	35.9	26.2	76.2	66.2	56.2	46.2	36.2	26.2	56.2	46.2
≥5000		89.8	73.1	65.2	56.7	46.7	36.8	27.0	77.0	67.0	57.0	47.0	37.0	27.0	57.0	47.0
≥4500		91.6	73.8	65.9	57.4	47.4	37.5	27.7	77.7	67.7	57.7	47.7	37.7	27.7	57.7	47.7
≥4000		91.5	75.1	67.3	58.7	48.7	38.8	29.0	79.0	69.0	59.0	49.0	39.0	29.0	59.0	49.0
≥3500		91.6	75.1	67.4	58.8	48.8	38.9	29.2	79.2	69.2	59.2	49.2	39.2	29.2	59.2	49.2
≥3000		92.1	75.5	67.7	59.2	49.2	39.3	29.5	79.5	69.5	59.5	49.5	39.5	29.5	59.5	49.5
≥2500		92.1	75.5	67.7	59.2	49.2	39.3	29.5	79.5	69.5	59.5	49.5	39.5	29.5	59.5	49.5
≥2000		92.0	75.5	67.7	59.2	49.2	39.3	29.5	79.5	69.5	59.5	49.5	39.5	29.5	59.5	49.5
≥1800		92.1	75.6	67.8	59.3	49.3	39.4	29.6	79.6	69.6	59.6	49.6	39.6	29.6	59.6	49.6
≥1500		92.2	75.7	68.0	59.4	49.4	39.5	29.8	79.8	69.8	59.8	49.8	39.8	29.8	59.8	49.8
≥1200		92.2	75.7	68.0	59.4	49.4	39.5	29.8	79.8	69.8	59.8	49.8	39.8	29.8	59.8	49.8
≥1000		92.2	75.7	68.0	59.4	49.4	39.5	29.8	79.8	69.8	59.8	49.8	39.8	29.8	59.8	49.8
≥900		92.2	75.7	68.0	59.4	49.4	39.5	29.8	79.8	69.8	59.8	49.8	39.8	29.8	59.8	49.8
≥800		92.2	75.7	68.0	59.4	49.4	39.5	29.8	79.8	69.8	59.8	49.8	39.8	29.8	59.8	49.8
≥700		92.2	75.7	68.0	59.4	49.4	39.5	29.8	79.8	69.8	59.8	49.8	39.8	29.8	59.8	49.8
≥600		92.2	75.7	68.0	59.4	49.4	39.5	29.8	79.8	69.8	59.8	49.8	39.8	29.8	59.8	49.8
≥500		92.2	75.7	68.0	59.4	49.4	39.5	29.8	79.8	69.8	59.8	49.8	39.8	29.8	59.8	49.8
≥400		92.2	75.7	68.0	59.4	49.4	39.5	29.8	79.8	69.8	59.8	49.8	39.8	29.8	59.8	49.8
≥300		92.2	75.7	68.0	59.4	49.4	39.5	29.8	79.8	69.8	59.8	49.8	39.8	29.8	59.8	49.8
≥200		92.2	75.7	68.0	59.4	49.4	39.5	29.8	79.8	69.8	59.8	49.8	39.8	29.8	59.8	49.8
≥100		92.2	75.7	68.0	59.4	49.4	39.5	29.8	79.8	69.8	59.8	49.8	39.8	29.8	59.8	49.8
≥0		92.2	75.7	68.0	59.4	49.4	39.5	29.8	79.8	69.8	59.8	49.8	39.8	29.8	59.8	49.8

TOTAL NUMBER OF OBSERVATIONS 837

CLIMATE CLIMATOLOGY BRANCH  
AFETAC  
AIR WEATHER SERVICE/MAC

## CEILING VERSUS VISIBILITY

128935 MATHER AFB CA

73-81

OCT

STATION

STATION NAME

YEARS

MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)

2100-2300  
HOURS (L.M.T.)

CEILING (FEET)	VISIBILITY STATUTE MILES															
	≥10	≥6	≥5	≥4	≥3	≥2½	≥2	≥1½	≥1¼	≥1	≥¾	≥½	≥¼	≥1/16	≥0	≥0
NO CEILING		75.1	81.6	87.7	90.8	92.8	92.8	92.8	92.8	92.8	92.8	92.8	92.8	92.8	92.8	92.8
≥ 20000		79.3	82.3	83.9	84.5	84.5	84.5	84.5	84.5	84.5	84.5	84.5	84.5	84.5	84.5	84.5
≥ 18000		79.6	83.3	84.1	84.2	84.2	84.2	84.2	84.2	84.2	84.2	84.2	84.2	84.2	84.2	84.2
≥ 16000		79.8	83.3	84.3	84.5	84.5	84.5	84.5	84.5	84.5	84.5	84.5	84.5	84.5	84.5	84.5
≥ 14000		81.7	84.5	85.5	85.8	85.8	85.8	85.8	85.8	85.8	85.8	85.8	85.8	85.8	85.8	85.8
≥ 12000		83.7	86.5	87.7	88.1	88.1	88.2	88.2	88.3	88.3	88.3	88.3	88.3	88.3	88.3	88.3
≥ 10000		85.3	88.9	90.1	90.4	90.4	90.6	90.6	90.7	90.7	90.7	90.7	90.7	90.7	90.7	90.7
≥ 9000		85.3	88.9	90.1	90.4	90.4	90.6	90.6	90.7	90.7	90.7	90.7	90.7	90.7	90.7	90.7
≥ 8000		85.9	89.5	90.7	91.0	91.0	91.2	91.2	91.3	91.3	91.3	91.3	91.3	91.3	91.3	91.3
≥ 7000		87.1	90.7	91.9	92.2	92.2	92.4	92.4	92.5	92.5	92.5	92.5	92.5	92.5	92.5	92.5
≥ 6000		87.0	92.6	93.9	94.3	94.4	94.5	94.5	94.6	94.6	94.6	94.6	94.6	94.6	94.6	94.6
≥ 5000		89.6	93.2	94.5	94.9	95.0	95.1	95.1	95.2	95.2	95.2	95.2	95.2	95.2	95.2	95.2
≥ 4500		91.3	95.9	96.5	96.9	97.1	97.3	97.3	97.4	97.4	97.4	97.4	97.4	97.4	97.4	97.4
≥ 4000		91.3	95.9	96.5	96.9	97.1	97.3	97.3	97.4	97.4	97.4	97.4	97.4	97.4	97.4	97.4
≥ 3500		91.9	95.6	97.1	97.5	97.7	97.8	97.8	98.0	98.0	98.0	98.0	98.0	98.0	98.0	98.0
≥ 3000		92.5	96.3	98.1	98.6	98.8	98.9	98.9	99.0	99.0	99.0	99.0	99.0	99.0	99.0	99.0
≥ 2500		92.5	96.3	98.1	98.6	98.8	98.9	98.9	99.0	99.0	99.0	99.0	99.0	99.0	99.0	99.0
≥ 2000		92.6	96.4	98.2	98.7	98.9	99.2	99.2	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3
≥ 1800		92.6	96.4	98.2	98.7	98.9	99.2	99.2	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3
≥ 1600		92.6	96.5	98.3	98.8	99.2	99.5	99.5	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6
≥ 1400		92.6	96.5	98.3	98.8	99.2	99.5	99.5	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6
≥ 1200		92.6	96.5	98.3	98.8	99.2	99.5	99.5	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6
≥ 1000		92.6	96.5	98.3	98.8	99.2	99.5	99.5	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6
≥ 900		92.6	96.5	98.3	98.8	99.2	99.5	99.5	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6
≥ 800		92.6	96.5	98.3	98.8	99.2	99.5	99.5	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6
≥ 700		92.7	96.7	98.4	98.9	99.3	99.6	99.6	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8
≥ 600		92.7	96.7	98.4	98.9	99.3	99.6	99.6	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8
≥ 500		92.7	96.7	98.4	98.9	99.3	99.6	99.6	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8
≥ 400		92.7	96.7	98.4	98.9	99.3	99.6	99.6	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8
≥ 300		92.7	96.7	98.4	98.9	99.3	99.6	99.6	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8
≥ 200		92.7	96.7	98.4	98.9	99.3	99.6	99.6	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8
≥ 100		92.7	96.7	98.4	98.9	99.3	99.6	99.6	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8
U		92.7	96.7	98.4	98.9	99.3	99.6	99.6	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8

TOTAL NUMBER OF OBSERVATIONS

837

CLIMATE CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

## CEILING VERSUS VISIBILITY

12-835 MATHER AFB CA

73-81

OCT

STATION

STATION NAME

YEAR

MONTH

### PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

ALL

HOURS (L.S.T.)

CEILING (FEET)	VISIBILITY - STATUTE MILES															
	≥10	≥6	≥5	≥4	≥3	≥2½	≥2	≥1½	≥1¼	≥1	¾	¾	¾	¾	≥5/16	≥¼
NO CEILING		72.1	76.4	78.5	79.8	80.1	80.3	80.5	80.5	80.6	80.6	80.6	80.6	80.6	80.6	80.6
≥ 20000		75.8	80.4	82.6	84.0	84.2	84.5	84.7	84.7	84.8	84.8	84.8	84.8	84.8	84.8	84.8
≥ 18000		76.1	81.7	82.9	84.3	84.5	84.8	84.9	85.0	85.0	85.0	85.0	85.0	85.0	85.0	85.0
≥ 16000		76.2	80.8	83.1	84.5	84.7	85.0	85.2	85.2	85.3	85.3	85.3	85.3	85.3	85.3	85.3
≥ 14000		77.5	82.1	84.4	85.8	86.0	86.3	86.5	86.5	86.6	86.6	86.6	86.6	86.6	86.6	86.6
≥ 12000		79.5	84.2	86.6	88.0	88.3	88.6	88.7	88.8	88.8	88.9	88.9	88.9	88.9	88.9	88.9
≥ 10000		81.2	86.3	88.4	89.9	90.1	90.4	90.6	90.7	90.7	90.7	90.7	90.7	90.7	90.7	90.7
≥ 9000		81.5	86.3	88.6	90.1	90.3	90.7	90.8	90.9	90.9	91.0	91.0	91.0	91.0	91.0	91.0
≥ 8000		82.4	87.3	89.7	91.1	91.4	91.7	91.9	91.9	92.0	92.0	92.0	92.0	92.0	92.0	92.0
≥ 7000		83.7	87.9	90.3	91.7	92.0	92.3	92.5	92.5	92.6	92.6	92.6	92.6	92.6	92.6	92.6
≥ 6000		84.2	89.1	91.5	93.0	93.3	93.6	93.8	93.9	93.9	93.9	93.9	94.0	94.0	94.0	94.0
≥ 5000		85.1	89.9	92.4	93.9	94.2	94.5	94.7	94.8	94.8	94.9	94.9	94.9	94.9	94.9	94.9
≥ 4500		85.6	90.6	93.1	94.6	94.8	95.2	95.4	95.4	95.5	95.5	95.5	95.5	95.5	95.5	95.5
≥ 4000		86.5	91.5	94.1	95.6	95.9	96.2	96.4	96.5	96.5	96.6	96.6	96.6	96.6	96.6	96.6
≥ 3500		86.8	91.9	94.5	96.0	96.3	96.6	96.8	96.9	96.9	97.0	97.0	97.0	97.0	97.0	97.0
≥ 3000		87.3	92.5	95.1	96.7	97.0	97.3	97.6	97.6	97.7	97.7	97.7	97.7	97.7	97.7	97.7
≥ 2500		87.5	92.7	95.3	96.9	97.2	97.6	97.8	97.8	97.9	97.9	97.9	97.9	97.9	97.9	97.9
≥ 2000		87.7	92.9	95.6	97.2	97.5	97.9	98.1	98.2	98.2	98.3	98.3	98.3	98.3	98.3	98.3
≥ 1800		87.8	93.0	95.7	97.3	97.6	98.0	98.3	98.3	98.4	98.4	98.4	98.4	98.4	98.4	98.4
≥ 1500		88.0	93.2	95.9	97.6	97.9	98.3	98.6	98.6	98.7	98.7	98.7	98.7	98.7	98.7	98.7
≥ 1200		88.1	93.4	96.2	97.8	98.2	98.6	98.9	98.9	99.0	99.0	99.0	99.0	99.0	99.0	99.0
≥ 1000		88.2	93.6	96.4	98.0	98.4	98.8	99.1	99.1	99.2	99.2	99.2	99.2	99.2	99.2	99.2
≥ 900		88.3	93.7	96.4	98.1	98.5	99.0	99.2	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3
≥ 800		88.3	93.7	96.5	98.2	98.6	99.0	99.3	99.4	99.4	99.4	99.4	99.4	99.5	99.5	99.5
≥ 700		88.3	93.7	96.6	98.3	98.8	99.2	99.5	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6
≥ 600		88.4	93.8	96.6	98.4	98.8	99.2	99.6	99.6	99.7	99.7	99.7	99.7	99.7	99.7	99.7
≥ 500		88.4	93.8	96.6	98.4	98.9	99.3	99.7	99.7	99.8	99.8	99.8	99.8	99.8	99.8	99.8
≥ 400		88.4	93.8	96.6	98.4	98.9	99.4	99.7	99.8	99.9	99.9	99.9	99.9	99.9	99.9	99.9
≥ 300		88.4	93.8	96.6	98.5	98.9	99.4	99.8	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9
≥ 200		88.4	93.8	96.6	98.5	98.9	99.4	99.8	99.9	99.9	100.0	100.0	100.0	100.0	100.0	100.0
≥ 100		88.4	93.8	96.6	98.5	98.9	99.4	99.8	99.9	99.9	100.0	100.0	100.0	100.0	100.0	100.0
≥ 0		88.4	93.8	96.6	98.5	98.9	99.4	99.8	99.9	99.9	100.0	100.0	100.0	100.0	100.0	100.0

TOTAL NUMBER OF OBSERVATIONS 6694

GLOBAL CLIMATOLOGY BRANCH  
AFETAC  
AF WEATHER SERVICE/MAC

## CEILING VERSUS VISIBILITY

174835 MATHER AFB CA

73-81

NOV

STATION

STATION NAME

YEARS

0000-0200

HOURS (L.S.T.)

PERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)

CEILING (FEET)	VISIBILITY STATUTE MILES															
	≥10	≥6	≥5	≥4	≥3	≥2½	≥2	≥1½	≥1¼	≥1	≥¾	≥½	≥¼	≥1/16	≥0	≥0
NO CEILING		51.8	55.1	56.8	59.7	60.3	61.1	62.0	62.1	62.7	62.9	62.9	63.6	63.6	63.7	64.1
≥ 20000		54.9	58.5	60.1	63.3	63.9	64.7	65.7	65.8	66.4	66.8	66.8	67.4	67.4	67.5	68.2
IV 18000		55.9	59.6	61.3	64.7	65.3	66.0	67.0	67.2	67.8	68.2	68.2	68.8	68.8	68.9	69.5
IV 16000		55.9	59.6	61.3	64.8	65.4	66.2	67.2	67.3	67.9	68.3	68.3	68.9	68.9	69.0	69.6
IV 14000		56.0	59.9	61.8	65.4	66.0	66.8	67.8	67.9	68.5	68.9	68.9	69.5	69.5	69.6	70.3
IV 12000		57.9	61.7	63.8	67.5	68.2	68.9	69.9	70.0	70.6	71.0	71.0	71.6	71.6	71.7	72.4
IV 10000		60.8	64.7	66.9	71.1	71.7	72.5	73.5	73.6	74.2	74.6	74.6	75.2	75.2	75.3	76.0
IV 9000		61.1	64.9	67.2	71.5	72.1	72.9	73.9	74.0	74.6	75.0	75.0	75.6	75.6	75.7	76.3
IV 8000		63.7	67.8	70.0	74.7	75.3	76.1	77.1	77.2	77.8	78.2	78.2	78.8	78.8	78.9	79.6
IV 7000		63.9	68.0	70.3	75.0	75.6	76.3	77.3	77.4	78.1	78.4	78.4	79.1	79.1	79.2	79.8
IV 6000		64.4	68.5	70.8	75.6	76.2	77.0	77.9	78.1	78.7	79.1	79.1	79.7	79.7	79.8	80.5
IV 5000		66.9	71.0	73.2	78.2	78.8	79.6	80.5	80.7	81.3	81.7	81.7	82.3	82.3	82.4	83.1
IV 4500		68.0	72.2	74.5	79.6	80.2	80.9	81.9	82.0	82.7	83.0	83.0	83.6	83.6	83.8	84.5
IV 4000		68.8	73.0	75.2	80.3	80.9	81.7	82.7	82.8	83.4	83.8	83.8	84.4	84.4	84.5	85.3
IV 3500		69.3	73.6	76.1	81.4	82.0	82.8	83.8	83.9	84.5	84.9	84.9	85.5	85.5	85.6	86.4
IV 3000		70.3	74.7	77.4	82.9	83.8	84.5	85.5	85.6	86.2	86.6	86.6	87.2	87.2	87.4	88.1
IV 2500		71.4	76.1	78.7	84.1	85.0	85.7	86.7	86.9	87.5	87.9	87.9	88.5	88.5	88.6	89.3
IV 2000		72.9	77.6	80.9	86.4	87.5	88.2	89.6	89.7	90.3	90.7	90.7	91.3	91.3	91.4	92.2
IV 1800		72.9	77.7	81.0	86.5	87.6	88.4	89.7	89.8	90.5	90.8	90.8	91.4	91.4	91.6	92.3
IV 1500		73.2	78.2	81.5	87.2	88.4	89.1	90.6	90.7	91.3	91.7	91.7	92.3	92.3	92.4	93.2
IV 1200		73.2	78.2	81.7	87.4	88.5	89.2	90.7	90.8	91.4	91.8	91.8	92.4	92.4	92.5	93.3
IV 1000		73.7	78.7	82.2	88.2	89.5	90.2	91.9	92.1	92.7	93.1	93.1	93.7	93.7	93.8	94.5
IV 900		73.7	78.7	82.2	88.6	90.0	90.8	92.6	92.7	93.3	93.7	93.7	94.3	94.3	94.4	95.2
IV 800		73.9	78.8	82.3	88.7	90.1	91.2	93.2	93.3	94.1	94.4	94.4	95.0	95.0	95.2	95.9
IV 700		73.9	78.8	82.5	89.1	90.5	91.6	93.8	93.9	94.7	95.0	95.0	95.7	95.7	95.8	96.5
IV 600		73.9	78.9	82.7	89.2	90.7	91.8	94.2	94.4	95.3	95.8	95.8	96.5	96.5	96.7	97.4
IV 500		74.0	79.1	82.8	89.3	90.8	91.9	94.3	94.7	95.5	96.0	96.0	96.8	96.8	96.9	97.6
IV 400		74.0	79.1	82.8	89.3	90.8	92.1	94.7	95.0	96.0	96.5	96.5	97.3	97.3	97.4	98.3
IV 300		74.0	79.1	82.8	89.3	90.8	92.3	95.2	95.5	96.5	97.0	97.0	97.9	97.9	98.0	99.0
IV 200		74.0	79.1	82.8	89.3	90.8	92.3	95.3	95.7	96.8	97.3	97.3	98.1	98.1	98.3	99.5
IV 100		74.0	79.1	82.8	89.3	90.8	92.3	95.3	95.7	96.8	97.3	97.3	98.1	98.1	98.3	99.9
IV 0		74.0	79.1	82.8	89.3	90.8	92.3	95.3	95.7	96.8	97.3	97.3	98.1	98.1	98.3	100.0

TOTAL NUMBER OF OBSERVATIONS 807



GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

# CEILING VERSUS VISIBILITY

724835  
STATION

MATHER AFB CA  
STATION NAME

73-81  
YEARS

NOV  
MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)

0300-0500  
HOURS (L.S.T.)

CEILING (FEET)	VISIBILITY STATUTE MILES															
	≥10	≥6	≥5	≥4	≥3	≥2½	≥2	≥1½	≥1¼	≥1	¾	¾	¾	¾	¾	¾
NO CEILING		52.5	54.5	56.8	59.1	59.5	59.9	60.2	60.3	61.0	61.8	61.8	62.1	62.2	62.3	63.2
≥ 20000		57.3	59.2	61.7	64.1	64.4	64.8	65.3	65.4	66.0	67.0	67.0	67.3	67.4	67.5	68.6
≥ 18000		57.6	59.9	62.6	64.9	65.3	65.7	66.2	66.3	66.9	67.9	67.9	68.2	68.3	68.4	69.5
≥ 16000		57.7	60.1	62.9	65.3	65.7	66.0	66.5	66.7	67.3	68.3	68.3	68.5	68.6	68.8	69.9
≥ 14000		58.1	60.5	63.7	66.0	66.4	66.8	67.3	67.4	68.0	69.0	69.0	69.3	69.4	69.5	70.6
≥ 12000		60.7	63.3	66.5	68.9	69.3	69.6	70.1	70.3	70.9	71.9	71.9	72.1	72.2	72.4	73.5
≥ 10000		64.2	66.8	70.0	72.6	73.7	73.4	74.1	74.2	74.8	75.8	75.8	76.1	76.2	76.3	77.4
≥ 9000		64.6	67.2	70.4	73.0	73.4	73.7	74.5	74.6	75.2	76.2	76.2	76.5	76.6	76.7	77.8
≥ 8000		67.0	69.6	73.0	75.8	76.2	76.6	77.3	77.4	78.1	79.1	79.1	79.3	79.4	79.6	80.7
≥ 7000		67.2	69.8	73.1	76.1	76.5	77.0	77.7	77.8	78.4	79.4	79.4	79.7	79.8	79.9	81.0
≥ 6000		67.7	70.3	73.6	76.6	77.0	77.4	78.2	78.3	78.9	79.9	79.9	80.2	80.3	80.4	81.5
≥ 5000		69.1	71.7	75.1	78.2	78.6	79.1	79.8	79.9	80.5	81.5	81.5	81.8	81.9	82.0	83.1
≥ 4500		70.4	73.0	76.3	79.4	79.9	80.4	81.2	81.3	81.9	82.9	82.9	83.1	83.3	83.4	84.5
≥ 4000		70.6	73.2	76.6	79.8	80.3	80.8	81.5	81.7	82.3	83.3	83.3	83.5	83.6	83.8	84.9
≥ 3500		71.3	73.6	77.1	80.4	80.9	81.4	82.2	82.3	82.9	83.9	83.9	84.1	84.3	84.4	85.5
≥ 3000		72.6	75.3	79.1	82.7	83.3	83.8	84.8	84.9	85.5	86.5	86.5	86.7	86.9	87.0	88.1
≥ 2500		72.7	75.5	79.2	82.8	83.4	83.9	84.9	85.0	85.6	86.6	86.6	86.9	87.0	87.1	88.2
≥ 2000		73.6	76.3	80.4	84.0	84.9	85.5	86.5	86.6	87.4	88.4	88.4	88.6	88.7	88.8	90.0
≥ 1800		73.7	76.5	80.5	84.1	85.0	85.6	86.6	86.7	87.5	88.5	88.5	88.7	88.8	89.0	90.1
≥ 1500		74.2	77.0	81.0	84.6	85.7	86.4	87.5	87.6	88.4	89.3	89.3	89.6	89.7	89.8	91.0
≥ 1200		74.6	77.3	81.4	85.3	86.4	87.0	88.1	88.2	89.0	90.0	90.0	90.2	90.3	90.5	91.6
≥ 1000		74.8	77.6	81.7	85.5	86.6	87.2	88.4	88.5	89.2	90.2	90.2	90.5	90.6	90.7	91.8
≥ 900		74.8	77.8	81.9	85.7	87.4	88.0	89.1	89.2	90.0	91.0	91.0	91.2	91.3	91.4	92.6
≥ 800		74.8	77.8	81.9	86.2	87.9	88.5	89.7	89.8	90.6	91.7	91.7	91.9	92.1	92.2	93.3
≥ 700		75.1	78.1	82.2	86.6	88.4	89.0	90.2	90.3	91.2	92.3	92.3	92.6	92.7	92.8	93.9
≥ 600		75.1	78.2	82.4	86.9	88.6	89.2	90.5	90.6	91.4	92.6	92.6	92.8	92.9	93.1	94.2
≥ 500		75.2	78.4	82.8	87.2	89.0	89.6	90.8	91.1	92.1	93.2	93.2	93.4	93.6	93.7	94.9
≥ 400		75.2	78.4	83.0	87.6	89.3	90.0	91.4	92.1	93.4	94.5	94.5	94.9	95.0	95.2	96.7
≥ 300		75.2	78.4	83.0	87.7	89.5	90.2	91.7	92.4	94.1	95.2	95.2	95.7	95.8	95.9	97.5
≥ 200		75.2	78.4	83.0	87.7	89.5	90.2	91.7	92.7	94.5	95.7	95.7	96.2	96.3	96.8	98.9
≥ 100		75.2	78.4	83.0	87.7	89.5	90.2	91.7	92.7	94.5	95.7	95.7	96.2	96.3	97.3	99.9
≥ 0		75.2	78.4	83.0	87.7	89.5	90.2	91.7	92.7	94.5	95.7	95.7	96.2	96.3	97.3	100.0

TOTAL NUMBER OF OBSERVATIONS 807

GLOBAL CLIMATOLOGY BRANCH  
ETAC  
AF WEATHER SERVICE/MAC

# CEILING VERSUS VISIBILITY

73-835

FATHER AFB CA

73-81

NOV

STATION

STATION NAME

YEARS

MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)

3600-0800  
HOURS (L.S.T.)

CEILING (FEET)	VISIBILITY: STATUTE MILES															
	≥10	≥6	≥5	≥4	≥3	≥2½	≥2	≥1½	≥1¼	≥1	¾	¾	¾	¾	¾	≥0
NO CEILING		44.8	47.7	49.9	52.7	53.3	54.3	55.8	56.0	56.8	57.7	57.7	58.2	58.4	58.5	58.6
≥ 20000		48.3	52.2	55.1	58.0	58.6	59.9	61.6	61.8	62.6	63.6	63.6	64.2	64.3	64.6	64.7
≥ 18000		48.3	53.1	55.3	58.1	58.7	61.1	61.8	62.1	62.8	63.8	63.8	64.4	64.6	64.8	64.9
≥ 16000		48.6	53.3	55.5	58.4	59.7	60.3	62.1	62.3	63.1	64.1	64.1	64.7	64.8	65.1	65.2
≥ 14000		49.6	54.5	57.0	60.0	60.6	62.0	63.7	63.9	64.7	65.7	65.7	66.3	66.4	66.7	66.8
≥ 12000		51.5	56.5	59.4	62.6	63.3	64.7	66.4	66.7	67.4	68.4	68.4	69.0	69.1	69.4	69.5
≥ 10000		54.3	59.4	62.3	65.6	66.3	67.7	69.5	69.9	70.8	71.7	71.7	72.4	72.5	72.9	73.0
≥ 9000		54.5	59.6	62.6	65.8	66.5	67.9	69.8	70.1	71.7	72.7	72.7	72.6	72.7	73.1	73.2
≥ 8000		56.1	61.2	64.3	67.7	68.4	69.8	71.6	72.1	73.0	74.0	74.0	74.6	74.7	75.1	75.2
≥ 7000		56.6	61.7	64.8	68.2	68.9	70.4	72.2	72.7	73.6	74.6	74.6	75.2	75.3	75.7	75.8
≥ 6000		57.0	62.2	65.3	68.8	69.5	71.1	73.0	73.5	74.3	75.3	75.3	76.0	76.1	76.5	76.6
≥ 5000		58.1	63.3	66.7	70.1	70.9	72.5	74.3	74.8	75.7	76.7	76.7	77.3	77.6	77.9	78.1
≥ 4500		58.7	63.9	67.5	71.0	71.7	73.4	75.2	75.7	76.6	77.6	77.6	78.2	78.4	78.8	78.9
≥ 4000		59.4	64.6	68.3	71.7	72.7	74.3	76.2	76.8	77.7	78.7	78.7	79.3	79.6	79.9	80.0
≥ 3500		60.0	65.2	69.1	72.7	73.9	75.6	77.4	78.1	78.9	79.9	79.9	80.5	80.8	81.2	81.3
≥ 3000		61.6	66.9	71.0	74.8	76.0	77.8	79.7	80.4	81.4	82.4	82.4	83.0	83.3	83.6	83.8
≥ 2500		62.2	67.7	71.7	76.0	77.1	78.9	80.8	81.5	82.5	83.5	83.5	84.1	84.4	84.8	84.9
≥ 2000		63.1	68.5	72.7	77.0	78.1	80.0	82.2	82.9	83.9	85.0	85.0	85.7	86.0	86.4	86.5
≥ 1800		63.4	69.1	73.4	77.6	78.8	80.9	82.9	83.6	84.6	85.7	85.7	86.5	86.7	87.1	87.2
≥ 1500		63.7	69.3	73.7	78.1	79.3	81.5	83.5	84.3	85.3	86.4	86.4	87.1	87.4	87.7	87.9
≥ 1200		64.3	70.0	74.5	78.8	80.0	82.3	84.5	85.3	86.2	87.4	87.4	88.1	88.4	88.7	88.8
≥ 1000		64.3	70.1	74.6	79.1	80.3	82.5	84.8	85.5	86.6	87.9	87.9	88.6	88.8	89.2	89.3
≥ 900		64.3	70.1	74.6	79.3	80.7	83.0	85.4	86.1	87.2	88.5	88.5	89.2	89.5	89.8	90.0
≥ 800		64.6	70.5	75.1	80.0	81.4	83.8	86.2	87.0	88.1	89.6	89.6	90.3	90.6	91.0	91.1
≥ 700		64.6	70.5	75.1	80.3	81.8	84.1	86.6	87.4	88.5	90.0	90.0	90.8	91.1	91.4	91.6
≥ 600		64.7	70.6	75.2	80.4	81.9	84.4	87.0	87.7	89.0	90.5	90.5	91.3	91.6	91.9	92.2
≥ 500		64.9	71.1	75.7	80.9	82.4	85.0	87.9	88.7	90.1	91.6	91.6	92.4	92.7	93.2	93.4
≥ 400		64.9	71.1	75.7	81.2	82.9	85.9	89.2	90.2	91.6	93.1	93.2	94.1	94.3	94.8	95.2
≥ 300		64.9	71.1	75.7	81.2	82.9	85.9	89.2	90.2	91.6	93.1	93.3	94.4	94.8	95.4	95.8
≥ 200		64.9	71.1	75.7	81.2	82.9	85.9	89.2	90.2	91.8	93.6	93.9	95.2	95.7	96.5	97.5
≥ 100		64.9	71.1	75.7	81.2	82.9	85.9	89.2	90.2	91.8	93.7	94.1	95.4	96.7	97.5	99.4
≥ 0		64.9	71.1	75.7	81.2	82.9	85.9	89.2	90.2	91.8	93.7	94.1	95.4	96.2	97.6	100.0

TOTAL NUMBER OF OBSERVATIONS 807

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AF WEATHER SERVICE/MAC

## CEILING VERSUS VISIBILITY

73-835 MATHER AFB CA

73-81

NOV

STATION

STATION NAME

YEARS

MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)

0900-1100  
HOURS (L.S.T.)

CEILING (FEET)	VISIBILITY STATUTE MILES															
	≥10	≥6	≥5	≥4	≥3	≥2½	≥2	≥1½	≥1¼	≥1	¾	¾	¾	¾	≥5/16	≥¼
NO CEILING		41.1	47.2	51.5	54.4	55.4	57.1	57.7	58.1	58.1	58.4	58.5	58.5	58.5	58.5	58.5
≥ 20000		45.4	52.4	57.1	60.2	61.2	63.2	63.9	64.3	64.3	64.6	64.7	64.8	64.8	64.8	64.8
≥ 18000		46.5	53.5	58.2	61.3	62.3	64.3	65.1	65.4	65.4	65.7	65.8	65.9	65.9	65.9	65.9
≥ 16000		46.7	53.9	59.0	62.1	63.1	65.1	65.8	66.2	66.2	66.4	66.5	66.7	66.7	66.7	66.7
≥ 14000		48.1	55.8	60.8	64.1	65.1	67.0	67.8	68.2	68.2	68.4	68.5	68.6	68.6	68.6	68.6
≥ 12000		49.9	57.6	62.7	66.2	67.4	69.6	70.4	70.8	70.8	71.0	71.1	71.3	71.3	71.3	71.3
≥ 10000		50.7	58.6	64.1	67.7	69.7	71.3	72.0	72.4	72.5	72.7	72.9	73.0	73.0	73.0	73.0
≥ 9000		51.1	59.0	64.4	68.6	70.0	72.2	73.0	73.4	73.5	73.7	73.9	74.0	74.0	74.0	74.0
≥ 8000		52.5	60.7	66.3	70.8	72.2	74.5	75.3	75.7	75.8	76.1	76.2	76.3	76.3	76.3	76.3
≥ 7000		53.3	61.5	67.2	71.6	73.1	75.3	76.2	76.6	76.7	77.0	77.1	77.2	77.2	77.2	77.2
≥ 6000		53.7	62.0	67.7	72.1	73.6	76.0	76.8	77.2	77.3	77.6	77.7	77.8	77.8	77.8	77.8
≥ 5000		55.0	63.4	69.4	73.9	75.3	77.7	78.6	78.9	79.1	79.3	79.4	79.6	79.6	79.6	79.6
≥ 4500		56.1	64.6	70.5	75.0	76.5	78.8	79.7	80.0	80.2	80.4	80.5	80.7	80.7	80.7	80.7
≥ 4000		57.2	65.9	71.9	76.5	77.9	80.3	81.3	81.7	81.9	82.2	82.3	82.5	82.5	82.5	82.5
≥ 3500		58.5	67.4	73.4	78.1	79.6	81.9	82.9	83.3	83.5	83.8	83.9	84.1	84.1	84.1	84.1
≥ 3000		59.2	68.6	74.6	79.4	81.2	83.5	84.6	85.1	85.4	85.6	85.7	86.0	86.0	86.0	86.0
≥ 2500		59.7	69.1	75.1	79.9	81.7	84.0	85.3	85.7	86.0	86.2	86.4	86.6	86.6	86.6	86.6
≥ 2000		60.2	69.8	75.8	80.8	82.5	84.9	86.1	86.6	86.9	87.1	87.2	87.5	87.5	87.5	87.5
≥ 1800		60.3	69.9	76.0	81.0	82.8	85.1	86.4	86.9	87.1	87.4	87.5	87.7	87.7	87.7	87.7
≥ 1500		60.5	70.0	76.1	81.3	83.0	85.4	86.6	87.1	87.4	87.6	87.7	88.0	88.0	88.0	88.0
≥ 1200		60.6	70.5	76.7	82.3	84.3	86.9	88.1	88.6	88.8	89.1	89.2	89.5	89.5	89.5	89.5
≥ 1000		60.8	71.8	77.0	82.7	84.6	87.4	89.1	89.6	90.0	90.3	90.5	90.7	90.7	90.7	90.7
≥ 900		60.8	71.8	77.2	83.1	85.1	87.9	89.6	90.1	90.5	90.8	91.0	91.2	91.2	91.2	91.2
≥ 800		61.1	71.4	77.7	84.1	86.1	88.8	90.6	91.1	91.4	91.8	91.9	92.2	92.2	92.2	92.2
≥ 700		61.1	71.4	77.7	84.5	86.7	89.7	91.7	92.2	92.6	92.9	93.1	93.3	93.3	93.3	93.3
≥ 600		61.2	71.5	77.9	85.1	87.4	90.6	92.8	93.3	93.7	94.1	94.2	94.4	94.4	94.4	94.4
≥ 500		61.2	71.5	77.9	85.3	87.9	91.6	93.9	94.7	95.4	96.0	96.3	96.5	96.5	96.5	96.5
≥ 400		61.2	71.5	77.9	85.4	88.1	92.1	94.9	95.7	96.4	97.0	97.3	97.5	97.5	97.6	97.6
≥ 300		61.2	71.5	77.9	85.5	88.2	92.2	95.4	96.3	97.1	97.8	98.0	98.6	98.8	98.9	98.9
≥ 200		61.2	71.5	78.1	85.6	88.4	92.3	95.7	96.5	97.4	98.1	98.4	99.1	99.3	99.5	99.6
≥ 100		61.2	71.5	78.1	85.6	88.4	92.3	95.7	96.5	97.4	98.1	98.4	99.1	99.3	99.5	100.0
≥ 0		61.2	71.5	78.1	85.6	88.4	92.3	95.7	96.5	97.4	98.1	98.4	99.1	99.3	99.5	100.0

TOTAL NUMBER OF OBSERVATIONS 807

LOCAL CLIMATOLOGY BRANCH  
 AFETAC  
 AIR WEATHER SERVICE/MAC

# CEILING VERSUS VISIBILITY

00535 MATHER AFB CA

73-81

NOV

STATION

STATION NAME

YEARS

MONTH

## PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

1200-1400  
 HOURS (L.S.T.)

CEILING (FEET)	VISIBILITY STATUTE MILES																
	≥10	≥6	≥5	≥4	≥3	≥2½	≥2	≥1½	≥1¼	≥1	¾	¾	¾	¾	¾	¾	≥0
NO CEILING		42.9	53.7	56.5	60.6	61.0	61.7	61.8	61.8	61.8	61.8	61.8	61.8	61.8	61.8	61.8	61.8
≥ 20000		49.1	57.2	63.3	67.4	67.8	68.6	68.8	68.8	68.8	68.8	68.8	68.8	68.8	68.8	68.8	68.8
≥ 18000		50.2	53.4	64.4	68.5	68.9	69.8	69.9	69.9	69.9	69.9	69.9	69.9	69.9	69.9	69.9	69.9
≥ 16000		53.3	58.6	64.7	69.1	69.5	73.4	70.5	70.5	70.5	70.5	70.5	70.5	70.5	70.5	70.5	70.5
≥ 14000		51.9	61.1	67.5	72.0	72.5	73.4	73.5	73.5	73.5	73.5	73.5	73.5	73.5	73.5	73.5	73.5
≥ 12000		52.9	62.6	69.0	73.7	74.2	75.2	75.3	75.3	75.3	75.3	75.3	75.3	75.3	75.3	75.3	75.3
≥ 10000		53.4	63.6	70.0	75.0	75.7	76.7	76.8	76.8	76.8	76.8	76.8	76.8	76.8	76.8	76.8	76.8
≥ 9000		53.7	63.8	70.4	75.3	76.1	77.1	77.2	77.2	77.2	77.2	77.2	77.2	77.2	77.2	77.2	77.2
≥ 8000		55.0	65.2	71.7	76.8	77.6	78.6	78.7	78.7	78.7	78.7	78.7	78.7	78.7	78.7	78.7	78.7
≥ 7000		55.5	65.8	72.5	77.8	78.6	79.7	79.8	79.8	79.8	79.8	79.8	79.8	79.8	79.8	79.8	79.8
≥ 6000		57.2	67.5	74.3	79.7	80.5	81.7	81.8	81.8	81.8	81.8	81.8	81.8	81.8	81.8	81.8	81.8
≥ 5000		57.7	68.2	75.1	80.4	81.3	82.4	82.5	82.5	82.5	82.5	82.5	82.5	82.5	82.5	82.5	82.5
≥ 4500		53.7	69.1	76.1	81.4	82.3	83.4	83.5	83.5	83.5	83.5	83.5	83.5	83.5	83.5	83.5	83.5
≥ 4000		60.5	71.3	78.2	84.1	85.0	86.2	86.4	86.4	86.4	86.4	86.4	86.4	86.4	86.4	86.4	86.4
≥ 3500		61.0	71.7	78.8	84.8	85.6	86.9	87.0	87.0	87.0	87.0	87.0	87.0	87.0	87.0	87.0	87.0
≥ 3000		62.8	73.6	81.2	87.6	88.5	89.7	89.8	89.8	89.8	89.8	89.8	89.8	89.8	89.8	89.8	89.8
≥ 2500		63.6	74.3	81.9	88.5	89.3	90.6	90.8	90.8	90.8	90.8	90.8	90.8	90.8	90.8	90.8	90.8
≥ 2000		63.9	74.7	82.3	89.3	90.3	91.6	91.8	91.8	91.8	91.8	91.8	91.8	91.8	91.8	91.8	91.8
≥ 1800		64.1	74.8	82.4	89.5	90.5	91.7	91.9	91.9	91.9	91.9	91.9	91.9	91.9	91.9	91.9	91.9
≥ 1500		64.9	76.0	83.6	90.7	91.7	92.9	93.2	93.2	93.2	93.2	93.2	93.2	93.2	93.2	93.2	93.2
≥ 1200		65.2	76.3	84.4	91.7	92.7	93.9	94.3	94.3	94.3	94.3	94.3	94.3	94.3	94.3	94.3	94.3
≥ 1000		65.3	76.6	84.9	92.4	93.7	94.9	95.4	95.4	95.4	95.4	95.4	95.4	95.4	95.4	95.4	95.4
≥ 900		65.4	76.8	85.3	93.6	94.8	96.4	96.9	96.9	96.9	96.9	96.9	96.9	96.9	96.9	96.9	96.9
≥ 800		65.4	76.8	85.3	93.7	94.9	96.5	97.0	97.0	97.0	97.0	97.0	97.0	97.0	97.0	97.0	97.0
≥ 700		65.4	76.8	85.4	93.8	95.3	97.1	97.6	97.6	97.6	97.6	97.6	97.6	97.6	97.6	97.6	97.6
≥ 600		65.4	76.8	85.4	93.9	95.5	97.4	98.0	98.0	98.0	98.0	98.0	98.0	98.0	98.0	98.0	98.0
≥ 500		65.4	76.8	85.4	93.9	95.8	97.9	98.6	98.6	98.6	98.6	98.6	98.6	98.6	98.6	98.6	98.6
≥ 400		65.4	76.8	85.4	93.9	96.0	98.1	98.9	98.9	98.9	98.9	98.9	98.9	98.9	98.9	98.9	98.9
≥ 300		65.4	76.8	85.4	93.9	96.0	98.1	98.9	98.9	98.9	98.9	98.9	98.9	98.9	98.9	98.9	98.9
≥ 200		65.4	76.8	85.4	93.9	96.0	98.1	98.9	98.9	98.9	98.9	98.9	98.9	98.9	98.9	98.9	98.9
≥ 100		65.4	76.8	85.4	93.9	96.0	98.1	98.9	98.9	98.9	98.9	98.9	98.9	98.9	98.9	98.9	98.9
≥ 0		65.4	76.8	85.4	93.9	96.0	98.1	98.9	98.9	98.9	98.9	98.9	98.9	98.9	98.9	98.9	98.9

TOTAL NUMBER OF OBSERVATIONS 807

GLOBAL CLIMATOLOGY BRANCH  
USAF ETAC  
AIR WEATHER SERVICE/MAC

# CEILING VERSUS VISIBILITY

STATION 74835 MATHER AFB CA

73-81

NOV

PERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)

1500-1700  
HOURS (L.S.T.)

CEILING (FEET)	VISIBILITY STATUTE MILES															
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1¼	≥ 1	≥ ¾	≥ ½	≥ ¼	≥ 1/16	≥ 0	≥ 0
NO CEILING		44.3	54.6	59.6	61.8	62.2	63.4	63.7	63.8	63.8	63.8	63.8	63.8	63.8	63.8	63.8
≥ 20000		53.7	58.7	62.9	66.8	67.3	68.6	68.9	69.0	69.0	69.0	69.0	69.0	69.0	69.0	69.0
≥ 18000		53.7	59.7	63.8	67.8	68.3	69.6	69.9	70.0	70.0	70.0	70.0	70.0	70.0	70.0	70.0
≥ 16000		53.8	59.7	64.2	68.3	68.8	70.1	70.4	70.5	70.5	70.5	70.5	70.5	70.5	70.5	70.5
≥ 14000		56.4	62.7	67.4	71.6	72.2	73.6	73.9	74.0	74.0	74.0	74.0	74.0	74.0	74.0	74.0
≥ 12000		53.2	63.9	69.8	74.3	75.0	76.5	77.0	77.1	77.1	77.1	77.1	77.1	77.1	77.1	77.1
≥ 10000		59.6	65.7	71.6	76.5	77.1	78.6	79.1	79.2	79.2	79.2	79.2	79.2	79.2	79.2	79.2
≥ 9000		59.7	65.8	71.7	76.6	77.2	78.7	79.2	79.3	79.3	79.3	79.3	79.3	79.3	79.3	79.3
≥ 8000		51.1	67.3	73.4	78.3	79.4	80.9	81.4	81.5	81.5	81.5	81.5	81.5	81.5	81.5	81.5
≥ 7000		51.7	68.3	74.5	79.6	80.7	82.2	82.8	82.9	82.9	82.9	82.9	82.9	82.9	82.9	82.9
≥ 6000		62.2	68.9	75.2	80.3	81.4	82.9	83.5	83.6	83.6	83.6	83.6	83.6	83.6	83.6	83.6
≥ 5000		53.1	69.8	76.1	81.3	82.4	83.9	84.6	84.8	84.8	84.8	84.8	84.8	84.8	84.8	84.8
≥ 4500		64.8	71.7	78.4	83.9	85.0	86.5	87.2	87.4	87.4	87.4	87.4	87.4	87.4	87.4	87.4
≥ 4000		56.4	73.5	80.2	85.6	86.7	88.4	89.1	89.2	89.2	89.2	89.2	89.2	89.2	89.2	89.2
≥ 3500		66.7	73.7	80.4	85.9	87.0	88.6	89.3	89.5	89.5	89.5	89.5	89.5	89.5	89.5	89.5
≥ 3000		68.3	75.7	82.0	88.6	89.7	91.3	92.4	92.6	92.6	92.6	92.6	92.6	92.6	92.6	92.6
≥ 2500		68.6	76.1	83.3	89.0	90.1	91.7	92.9	93.1	93.1	93.1	93.1	93.2	93.2	93.2	93.2
≥ 2000		69.1	76.6	83.8	89.6	90.7	92.4	93.8	93.9	93.9	93.9	93.9	94.2	94.2	94.2	94.2
≥ 1800		69.6	77.1	84.3	90.1	91.2	93.1	94.5	94.7	94.7	94.7	94.7	94.9	94.9	94.9	94.9
≥ 1500		70.5	77.9	85.1	91.0	92.3	94.2	95.8	95.9	95.9	95.9	95.9	96.2	96.2	96.2	96.2
≥ 1200		70.5	78.1	85.3	91.4	93.1	94.9	96.5	96.7	96.7	96.7	96.7	96.9	96.9	96.9	96.9
≥ 1000		70.6	78.4	85.7	92.3	93.9	96.0	97.9	98.0	98.0	98.0	98.0	98.3	98.3	98.3	98.3
≥ 900		71.6	78.6	85.9	92.7	94.3	96.4	98.3	98.4	98.4	98.4	98.4	98.6	98.6	98.6	98.6
≥ 800		71.6	78.6	85.9	92.7	94.3	96.4	98.4	98.5	98.5	98.5	98.5	98.8	98.8	98.8	98.8
≥ 700		70.6	78.6	85.9	92.9	94.8	97.0	99.0	99.1	99.3	99.3	99.3	99.5	99.5	99.5	99.5
≥ 600		70.6	78.6	85.9	92.9	95.0	97.3	99.4	99.5	99.6	99.6	99.6	99.9	99.9	99.9	99.9
≥ 500		70.6	78.6	85.9	92.9	95.0	97.4	99.5	99.6	99.8	99.8	99.8	100.0	100.0	100.0	100.0
≥ 400		70.6	78.6	85.9	92.9	95.0	97.4	99.5	99.6	99.8	99.8	99.8	100.0	100.0	100.0	100.0
≥ 300		70.6	78.6	85.9	92.9	95.0	97.4	99.5	99.6	99.8	99.8	99.8	100.0	100.0	100.0	100.0
≥ 200		70.6	78.6	85.9	92.9	95.0	97.4	99.5	99.6	99.8	99.8	99.8	100.0	100.0	100.0	100.0
≥ 100		70.6	78.6	85.9	92.9	95.0	97.4	99.5	99.6	99.8	99.8	99.8	100.0	100.0	100.0	100.0
≥ 0		71.6	78.6	85.9	92.9	95.0	97.4	99.5	99.6	99.8	99.8	99.8	100.0	100.0	100.0	100.0

TOTAL NUMBER OF OBSERVATIONS 807

GLOBAL CLIMATOLOGY BRANCH  
 AFETAC  
 AIR WEATHER SERVICE/MAC

# CEILING VERSUS VISIBILITY

724835 MATHER AFB CA

73-81

NOV

STATION

STATION NAME

YEARS

MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE  
 (FROM HOURLY OBSERVATIONS)

1800-2000  
 HOURS (L.S.T.)

CEILING (FEET)	VISIBILITY STATUTE MILES															
	≥10	≥6	≥5	≥4	≥3	≥2½	≥2	≥1½	≥1¼	≥1	≥¾	≥½	≥¼	≥1/16	≥0	≥0
NO CEILING		42.9	55.4	60.6	62.9	63.3	63.8	64.4	64.6	64.6	64.6	64.6	64.6	64.6	64.6	64.6
≥ 20000		52.9	59.4	64.6	67.2	67.5	68.0	68.6	68.8	68.8	68.8	68.8	68.8	68.8	68.8	68.8
≥ 18000		53.2	59.4	65.1	67.7	68.0	68.5	69.1	69.3	69.3	69.3	69.3	69.3	69.3	69.3	69.3
≥ 16000		53.2	59.4	65.1	67.7	68.0	68.5	69.1	69.3	69.3	69.3	69.3	69.3	69.3	69.3	69.3
≥ 14000		55.1	61.6	67.5	70.3	70.6	71.1	72.0	72.1	72.1	72.1	72.1	72.1	72.1	72.1	72.1
≥ 12000		58.0	64.9	71.5	74.6	75.0	75.5	76.3	76.5	76.5	76.5	76.5	76.5	76.5	76.5	76.5
≥ 10000		60.6	67.8	74.3	77.4	77.9	78.4	79.3	79.4	79.4	79.4	79.4	79.4	79.4	79.4	79.4
≥ 9000		60.6	68.0	74.6	77.7	78.2	78.7	79.6	79.7	79.7	79.7	79.7	79.7	79.7	79.7	79.7
≥ 8000		62.5	69.6	76.3	79.6	80.2	80.7	81.5	81.7	81.7	81.7	81.7	81.7	81.7	81.7	81.7
≥ 7000		63.4	71.0	77.9	81.2	81.8	82.3	83.1	83.3	83.3	83.3	83.3	83.3	83.3	83.3	83.3
≥ 6000		64.2	72.1	79.1	82.3	83.1	83.6	84.5	84.6	84.6	84.6	84.6	84.6	84.6	84.6	84.6
≥ 5000		65.2	73.4	80.4	83.8	84.6	85.3	86.1	86.2	86.2	86.2	86.2	86.2	86.2	86.2	86.2
≥ 4500		66.3	74.8	82.0	85.5	86.4	87.0	87.9	88.0	88.0	88.0	88.0	88.0	88.0	88.0	88.0
≥ 4000		67.3	75.1	83.3	87.0	87.9	88.5	89.3	89.5	89.5	89.5	89.5	89.5	89.5	89.5	89.5
≥ 3500		67.7	75.6	83.8	87.6	88.5	89.1	90.0	90.2	90.2	90.2	90.2	90.2	90.2	90.2	90.2
≥ 3000		68.8	78.2	85.4	89.5	90.3	91.1	91.9	92.2	92.2	92.2	92.2	92.2	92.2	92.2	92.2
≥ 2500		68.8	78.2	85.5	89.6	90.5	91.2	92.1	92.3	92.3	92.3	92.3	92.3	92.3	92.3	92.3
≥ 2000		69.3	79.9	86.2	90.5	91.4	92.6	93.4	93.7	93.7	93.8	93.8	93.9	93.9	93.9	93.9
≥ 1800		69.6	79.6	86.9	91.1	92.1	93.2	94.1	94.3	94.3	94.4	94.4	94.5	94.5	94.5	94.5
≥ 1500		70.1	80.2	87.6	91.8	92.8	94.5	95.4	95.7	95.7	95.8	95.8	95.9	95.9	95.9	95.9
≥ 1200		70.1	80.3	87.9	92.4	93.6	95.3	96.2	96.4	96.4	96.5	96.5	96.7	96.7	96.7	96.7
≥ 1000		70.1	80.3	88.0	92.9	94.1	95.8	97.0	97.3	97.3	97.4	97.4	97.5	97.5	97.5	97.5
≥ 900		70.1	80.3	88.0	93.2	94.3	96.2	97.4	97.6	97.6	97.8	97.8	97.9	97.9	97.9	97.9
≥ 800		70.1	80.3	88.0	93.3	94.5	96.5	97.8	98.0	98.0	98.1	98.1	98.3	98.3	98.3	98.3
≥ 700		70.1	80.3	88.0	93.3	94.8	96.9	98.1	98.4	98.4	98.5	98.5	98.6	98.6	98.6	98.6
≥ 600		70.1	80.3	88.0	93.3	95.0	97.4	98.6	98.9	98.9	99.0	99.0	99.1	99.1	99.1	99.1
≥ 500		70.1	80.3	88.0	93.3	95.2	97.6	99.0	99.3	99.3	99.4	99.4	99.5	99.5	99.5	99.5
≥ 400		70.1	80.3	88.0	93.3	95.2	97.9	99.3	99.5	99.5	99.6	99.6	99.8	99.8	99.8	99.8
≥ 300		70.1	80.3	88.0	93.3	95.2	97.9	99.3	99.5	99.5	99.6	99.6	99.8	99.8	99.8	99.8
≥ 200		70.1	80.3	88.0	93.3	95.2	97.9	99.3	99.5	99.5	99.6	99.6	99.8	99.8	99.8	99.8
≥ 100		70.1	80.3	88.0	93.3	95.2	97.9	99.3	99.5	99.5	99.6	99.6	99.8	99.8	99.8	99.8
≥ 0		70.1	80.3	88.0	93.3	95.2	97.9	99.3	99.5	99.5	99.6	99.6	99.8	99.8	99.8	100.0

TOTAL NUMBER OF OBSERVATIONS 807

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AF WEATHER SERVICE/MAC

## CEILING VERSUS VISIBILITY

724835

MATHER AFB CA

73-81

NOV

STATION

STATION NAME

YEARS

MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)

2100-2300  
HOURS (L.S.T.)

CEILING (FEET)	VISIBILITY STATUTE MILES															
	≥10	≥6	≥5	≥4	≥3	≥2½	≥2	≥1½	≥1¼	≥1	≥¾	≥½	≥¼	≥1/16	≥1/8	≥0
NO CEILING		52.7	55.6	59.7	62.6	62.9	63.8	64.3	64.7	64.9	65.2	65.2	65.2	65.3	65.4	65.4
≥ 20000		55.9	61.1	64.6	67.9	68.5	69.4	69.9	70.1	70.4	70.4	70.4	70.5	70.6	70.6	70.6
IN 18000		55.9	61.1	64.6	67.9	68.5	69.4	69.9	70.3	70.5	70.8	70.8	70.8	70.9	71.0	71.0
IN 16000		55.9	61.1	64.6	68.3	68.9	69.8	70.3	70.6	70.9	71.1	71.1	71.1	71.3	71.4	71.4
IN 14000		56.1	61.3	65.1	68.8	69.4	70.3	70.8	71.1	71.4	71.6	71.6	71.6	71.7	71.9	71.9
IN 12000		57.6	62.9	66.9	71.9	71.5	72.4	72.9	73.2	73.5	73.7	73.7	73.7	73.9	74.0	74.0
IN 10000		61.3	67.7	71.4	75.5	76.1	77.0	77.6	77.9	78.2	78.4	78.4	78.4	78.6	78.7	78.7
IN 9000		52.1	67.8	72.1	76.2	76.8	77.7	78.4	78.8	79.1	79.3	79.3	79.3	79.4	79.6	79.6
IN 8000		64.3	70.1	74.6	79.8	79.4	80.3	81.0	81.4	81.7	81.9	81.9	81.9	82.0	82.2	82.2
IN 7000		64.7	70.5	75.0	79.2	79.9	80.8	81.5	81.9	82.2	82.4	82.4	82.4	82.5	82.7	82.7
IN 6000		65.6	71.7	76.2	80.4	81.2	82.0	82.8	83.1	83.4	83.6	83.6	83.6	83.8	83.9	83.9
IN 5000		66.9	73.2	77.7	82.0	82.8	83.6	84.6	85.0	85.3	85.5	85.5	85.5	85.6	85.7	85.7
IN 4500		67.9	74.2	78.8	83.3	84.0	84.9	86.0	86.4	86.6	86.9	86.9	86.9	87.0	87.1	87.1
IN 4000		68.8	75.1	79.7	84.1	85.0	85.9	87.0	87.4	87.6	87.9	87.9	87.9	88.0	88.1	88.1
IN 3500		69.9	76.2	80.8	85.3	86.1	87.0	88.2	88.6	88.8	89.1	89.1	89.1	89.2	89.3	89.3
IN 3000		71.3	78.2	82.9	87.7	88.6	89.6	90.8	91.3	91.6	91.8	91.8	91.8	91.9	92.1	92.1
IN 2500		71.9	78.9	83.6	88.6	89.5	90.5	91.7	92.2	92.4	92.7	92.7	92.7	92.8	92.9	92.9
IN 2000		72.5	79.7	84.5	89.8	90.8	91.8	93.1	93.6	93.8	94.1	94.1	94.1	94.2	94.3	94.3
IN 1800		72.5	79.7	84.5	89.8	90.8	91.8	93.1	93.6	93.8	94.1	94.1	94.1	94.2	94.3	94.3
IN 1500		73.1	80.3	85.3	90.8	92.1	93.1	94.3	94.8	95.0	95.3	95.3	95.3	95.4	95.5	95.5
IN 1200		73.2	80.4	85.4	91.6	92.9	93.9	95.2	95.7	96.0	96.3	96.3	96.3	96.4	96.5	96.5
IN 1000		73.4	80.5	85.5	92.2	93.6	94.5	95.9	96.4	96.8	97.0	97.0	97.0	97.1	97.3	97.3
IN 900		73.4	80.5	85.5	92.2	93.6	94.8	96.2	96.7	97.0	97.3	97.3	97.3	97.4	97.5	97.5
IN 800		73.4	80.5	85.5	92.2	93.8	95.0	96.5	97.0	97.4	97.6	97.6	97.6	97.8	97.9	97.9
IN 700		73.4	80.5	85.5	92.2	93.8	95.0	96.5	97.0	97.4	97.6	97.6	97.6	97.8	97.9	97.9
IN 600		73.4	80.5	85.5	92.2	93.8	95.2	96.7	97.1	97.5	97.8	97.8	97.8	97.9	98.0	98.0
IN 500		73.5	80.7	85.6	92.3	93.9	95.5	97.0	97.5	97.9	98.1	98.1	98.1	98.3	98.4	98.4
IN 400		73.5	80.7	85.6	92.3	93.9	96.0	97.6	98.1	98.5	98.8	98.8	98.8	98.9	99.0	99.0
IN 300		73.5	80.7	85.6	92.3	93.9	96.0	97.6	98.1	98.5	98.8	98.8	98.8	98.9	99.0	99.1
IN 200		73.5	80.7	85.6	92.3	93.9	96.2	97.8	98.3	98.6	98.9	98.9	98.9	99.0	99.1	99.3
IN 100		73.5	80.7	85.6	92.3	93.9	96.2	97.8	98.3	98.6	98.9	98.9	98.9	99.0	99.1	100.0
IN 0		73.5	80.7	85.6	92.3	93.9	96.2	97.8	98.3	98.6	98.9	98.9	98.9	99.0	99.1	100.0

TOTAL NUMBER OF OBSERVATIONS 807

GLOBAL CLIMATOLOGY BRANCH  
METAC  
AIR WEATHER SERVICE/MAC

## CEILING VERSUS VISIBILITY

101835

MATHER AFB CA

73-81

NOV

STATION

STATION NAME

YEARS

MONTH

### PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

ALL

HOURS (L.S.T.)

CEILING (FEET)	VISIBILITY STATUTE MILES															
	≥10	≥6	≥5	≥4	≥3	≥2½	≥2	≥1½	≥1¼	≥1	≥¾	≥½	≥¼	≥1/16	≥0	≥0
NO CEILING		44.0	52.7	56.3	59.2	59.7	60.6	61.2	61.4	61.7	62.0	62.1	62.2	62.3	62.3	62.5
≥20000		52.1	57.3	61.1	64.3	64.9	65.9	66.5	66.7	67.0	67.4	67.4	67.6	67.6	67.7	67.9
≥18000		52.6	57.9	61.9	65.1	65.7	66.7	67.4	67.5	67.8	68.2	68.2	68.4	68.4	68.5	68.8
≥16000		52.8	58.1	62.2	65.5	66.0	67.1	67.7	67.9	68.2	68.6	68.6	68.8	68.8	68.9	69.1
≥14000		53.9	59.6	63.9	67.3	67.9	68.9	69.6	69.8	70.0	70.4	70.4	70.6	70.7	70.7	71.0
≥12000		55.9	61.7	66.2	69.8	70.5	71.5	72.3	72.5	72.8	73.1	73.1	73.3	73.4	73.5	73.7
≥10000		58.1	64.2	68.8	72.7	73.4	74.4	75.2	75.4	75.7	76.1	76.1	76.3	76.4	76.5	76.7
≥9000		58.4	64.5	69.2	73.1	73.8	74.9	75.7	75.9	76.2	76.5	76.6	76.8	76.8	76.9	77.1
≥8000		60.3	66.4	71.2	75.3	76.1	77.2	78.0	78.2	78.5	78.9	78.9	79.1	79.2	79.2	79.5
≥7000		60.8	67.1	71.9	76.1	76.9	78.0	78.8	79.1	79.4	79.7	79.7	79.9	80.0	80.1	80.3
≥6000		61.5	67.9	72.8	77.0	77.8	79.0	79.8	80.0	80.3	80.7	80.7	80.9	81.0	81.1	81.3
≥5000		62.8	69.3	74.2	78.5	79.3	80.5	81.4	81.6	81.9	82.3	82.3	82.5	82.6	82.7	82.9
≥4500		63.9	70.5	75.5	79.9	80.7	81.9	82.8	83.0	83.3	83.7	83.7	83.9	84.0	84.1	84.3
≥4000		64.9	71.6	76.7	81.1	82.1	83.3	84.2	84.4	84.7	85.1	85.1	85.3	85.4	85.5	85.7
≥3500		65.5	72.3	77.4	82.0	82.9	84.2	85.1	85.3	85.7	86.0	86.0	86.3	86.3	86.4	86.7
≥3000		66.9	73.9	79.3	84.2	85.2	86.4	87.5	87.7	88.1	88.4	88.5	88.7	88.8	88.8	89.1
≥2500		67.4	74.5	79.9	84.8	85.8	87.1	88.2	88.4	88.8	89.1	89.2	89.4	89.5	89.6	89.8
≥2000		68.1	75.3	80.8	85.9	87.0	88.4	89.6	89.9	90.2	90.6	90.6	90.9	91.0	91.1	91.3
≥1800		68.3	75.5	81.1	86.2	87.3	88.7	89.9	90.2	90.6	90.9	91.0	91.3	91.3	91.4	91.7
≥1500		68.8	76.1	81.8	86.9	88.2	89.6	90.9	91.2	91.5	91.9	91.9	92.2	92.3	92.4	92.6
≥1200		69.0	76.4	82.1	87.6	88.9	90.4	91.7	92.0	92.4	92.8	92.8	93.1	93.2	93.3	93.5
≥1000		69.1	76.6	82.4	88.2	89.5	91.1	92.5	92.8	93.2	93.7	93.7	94.0	94.1	94.2	94.4
≥900		69.2	76.7	82.6	88.6	90.0	91.7	93.2	93.5	93.9	94.3	94.3	94.6	94.7	94.8	95.1
≥800		69.2	76.8	82.7	88.9	90.4	92.1	93.7	94.0	94.4	94.9	94.9	95.2	95.3	95.4	95.6
≥700		69.3	76.9	82.8	89.1	90.7	92.5	94.2	94.5	94.9	95.4	95.4	95.8	95.8	95.9	96.2
≥600		69.3	76.9	82.9	89.3	91.0	92.9	94.6	94.9	95.4	95.9	95.9	96.3	96.4	96.5	96.7
≥500		69.4	77.1	83.0	89.4	91.2	93.3	95.1	95.5	96.1	96.6	96.7	97.0	97.1	97.2	97.5
≥400		69.4	77.1	83.0	89.5	91.4	93.7	95.7	96.1	96.8	97.3	97.4	97.8	97.8	98.0	98.3
≥300		69.4	77.1	83.0	89.5	91.4	93.8	95.8	96.3	97.0	97.6	97.6	98.1	98.2	98.4	98.8
≥200		69.4	77.1	83.1	89.5	91.5	93.8	95.9	96.4	97.2	97.8	97.9	98.4	98.5	98.7	99.3
≥100		69.4	77.1	83.1	89.5	91.5	93.8	95.9	96.4	97.2	97.8	97.9	98.4	98.6	98.9	99.9
≥0		69.4	77.1	83.1	89.5	91.5	93.8	95.9	96.4	97.2	97.8	97.9	98.4	98.6	98.9	100.0

TOTAL NUMBER OF OBSERVATIONS 6456



CLIMATE CLIMATOLOGY BRANCH  
AFETAC  
AF WEATHER SERVICE/MAC

# CEILING VERSUS VISIBILITY

100835 MATHEP AFB CA

73-81

DEC

STATION

STATION NAME

YEARS

MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)

0000-0200  
HOURS (L.S.T.)

CEILING (FEET)	VISIBILITY STATUTE MILES															
	≥ 0	≥ 0	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1¼	≥ 1	≥ ¾	≥ ½	≥ ¼	≥ 1/10	≥ 1/8	≥ 0
NO CEILING		71.9	34.8	28.0	43.7	45.4	47.8	50.7	50.9	51.4	51.5	51.5	52.0	52.7	52.2	52.8
≥ 20000		72.5	36.1	39.5	45.8	47.9	50.5	53.6	53.8	54.4	54.5	54.5	55.0	55.0	55.2	55.8
≥ 18000		72.5	36.1	39.5	45.8	47.9	50.5	53.6	53.8	54.4	54.5	54.5	55.0	55.0	55.2	55.8
≥ 16000		72.5	36.1	39.5	45.8	47.9	50.5	53.6	53.8	54.4	54.5	54.5	55.0	55.0	55.2	55.8
≥ 14000		72.5	36.2	39.7	45.9	48.7	50.7	53.9	54.0	54.6	54.7	54.7	55.2	55.2	55.4	56.0
≥ 12000		73.1	36.9	40.4	46.6	49.1	51.7	55.0	55.1	55.7	55.8	55.8	56.3	56.3	56.5	57.1
≥ 10000		74.2	38.2	41.7	48.3	51.8	53.4	57.0	57.1	58.1	58.2	58.2	58.8	58.8	59.0	59.6
≥ 9000		74.3	38.3	42.1	48.6	51.1	53.8	57.3	57.5	58.4	58.5	58.5	59.1	59.1	59.4	60.0
≥ 8000		74.6	38.8	42.8	49.5	52.0	54.6	58.2	58.3	59.5	59.6	59.6	60.2	60.2	60.5	61.2
≥ 7000		74.3	39.1	43.0	49.8	52.4	55.1	58.7	58.8	60.0	60.1	60.1	60.7	60.7	60.9	61.6
≥ 6000		75.4	39.8	44.0	50.9	53.5	56.2	59.7	59.9	61.1	61.2	61.2	61.8	61.8	62.0	62.7
≥ 5000		76.1	40.5	44.9	51.9	54.6	57.2	60.8	60.9	62.1	62.2	62.2	62.8	62.8	63.1	63.8
≥ 4500		76.6	42.1	46.7	53.8	56.5	59.1	62.7	62.8	64.0	64.3	64.3	64.9	64.9	65.1	65.8
≥ 4000		76.5	43.1	47.8	55.0	57.7	60.3	63.9	64.0	65.2	65.5	65.5	66.1	66.1	66.3	67.0
≥ 3500		76.3	44.2	48.9	56.4	59.1	61.8	65.5	65.6	66.8	67.7	67.7	67.6	67.6	67.9	68.6
≥ 3000		76.5	46.4	51.1	58.8	61.5	64.3	68.0	68.1	69.3	69.5	69.5	70.1	70.1	70.4	71.1
≥ 2500		76.5	46.4	51.1	58.8	61.5	64.4	68.1	68.2	69.4	69.7	69.7	70.3	70.3	70.5	71.2
≥ 2000		76.1	47.1	51.9	59.5	62.5	65.2	68.9	69.1	70.3	70.5	70.5	71.1	71.2	71.4	72.2
≥ 1800		76.2	47.2	52.7	59.6	62.6	65.5	69.2	69.3	70.5	70.7	70.7	71.3	71.4	71.7	72.4
≥ 1500		76.5	47.7	52.4	60.1	63.1	65.9	69.7	69.8	71.0	71.2	71.2	71.8	71.9	72.2	72.9
≥ 1200		76.3	48.1	53.0	60.7	63.7	66.5	70.4	70.5	71.7	72.0	72.0	72.6	72.8	73.0	73.7
≥ 1000		76.7	49.2	54.1	61.8	64.9	67.7	71.8	71.9	73.1	73.5	73.5	74.1	74.2	74.4	75.1
≥ 900		76.7	49.2	54.2	62.1	65.4	68.2	72.3	72.4	73.6	74.1	74.1	74.7	74.8	75.0	75.7
≥ 800		76.3	49.6	54.6	62.6	66.1	69.2	73.2	73.4	74.6	75.7	75.0	75.6	75.7	76.7	76.7
≥ 700		76.3	49.6	54.6	62.7	66.2	69.4	73.7	73.8	75.0	75.5	75.5	76.1	76.2	76.5	77.2
≥ 600		76.1	50.1	55.2	63.6	67.1	70.4	75.1	75.6	77.1	77.5	77.5	78.1	78.3	78.5	79.2
≥ 500		76.8	51.7	56.6	65.5	69.2	72.4	77.3	78.1	79.6	80.7	80.0	80.6	80.8	81.7	81.8
≥ 400		76.2	51.4	57.5	66.4	70.7	74.6	80.0	81.1	82.9	83.5	83.5	84.1	84.2	84.5	85.4
≥ 300		76.4	51.7	57.8	67.4	72.0	76.6	82.6	84.2	86.6	87.5	87.5	88.3	88.5	88.8	90.3
≥ 200		76.4	51.7	57.8	67.4	72.0	76.7	83.2	85.1	87.8	88.9	88.9	90.2	90.6	90.8	93.1
≥ 100		76.4	51.7	57.8	67.4	72.0	76.7	83.2	85.1	87.9	89.1	89.1	90.7	91.0	92.0	96.7
≥ 0		76.4	51.7	57.8	67.4	72.0	76.7	83.2	85.1	87.9	89.1	89.1	90.7	91.2	92.1	100.0

TOTAL NUMBER OF OBSERVATIONS 837

CLIMATE CLIMATOLOGY BRANCH  
ETAC  
AIR WEATHER SERVICE/MAC

# CEILING VERSUS VISIBILITY

STATION 124835 WEATHER APP CA

73-41

DEC

STATION

STATION NAME

YEARS

MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)

300-0500  
HOURS (L.S.T.)

CEILING (FEET)	VISIBILITY STATUTE MILES																
	≥10	≥6	≥5	≥4	≥3	≥2½	≥2	≥1½	≥1¼	≥1	¾	¾	¾	¾	≥5/16	¾	≥0
NO CEILING		27.4	33.7	35.7	39.1	40.7	42.7	44.7	45.3	45.9	45.9	45.9	46.1	46.4	46.7	47.2	
≥ 20000		52.3	36.1	38.9	43.2	44.9	47.2	49.2	49.8	50.4	50.4	50.4	50.7	51.0	51.4	51.9	
≥ 18000		72.4	36.1	39.1	43.4	45.2	47.4	49.5	50.1	50.7	50.7	50.7	50.9	51.3	51.6	52.1	
≥ 16000		72.5	36.2	39.2	43.5	45.3	47.6	49.6	50.2	50.8	50.9	50.8	51.0	51.4	51.7	52.2	
≥ 14000		73.7	36.7	39.7	44.1	45.9	48.1	50.3	50.9	51.5	51.5	51.5	51.7	52.2	52.6	53.0	
≥ 12000		73.8	37.0	40.6	45.0	47.3	49.2	51.4	52.0	52.6	52.6	52.6	52.8	53.3	53.6	54.1	
≥ 10000		74.9	39.1	42.3	47.1	49.0	52.0	54.2	55.2	56.0	56.0	56.0	56.3	56.8	57.1	57.7	
≥ 9000		74.9	39.1	42.3	47.1	49.0	52.0	54.2	55.2	56.0	56.0	56.0	56.3	56.8	57.1	57.7	
≥ 8000		75.4	39.7	43.2	48.0	49.9	52.9	55.2	56.2	57.0	57.0	57.2	57.5	57.9	58.3	58.9	
≥ 7000		75.5	39.3	43.5	48.3	50.2	53.2	55.4	56.4	57.2	57.5	57.5	57.7	58.2	58.5	59.1	
≥ 6000		76.0	40.5	44.6	49.3	51.3	54.5	56.9	57.8	58.7	58.9	58.9	59.1	59.6	60.0	60.6	
≥ 5000		76.7	41.7	45.8	50.5	52.4	55.8	58.2	59.1	60.0	60.2	60.2	60.5	60.9	61.3	61.9	
≥ 4500		77.5	42.5	46.6	51.4	53.3	56.6	59.0	60.0	60.8	61.1	61.1	61.3	61.8	62.1	62.7	
≥ 4000		77.8	42.9	47.1	52.0	53.9	57.5	59.9	60.8	61.6	61.9	61.9	62.1	62.6	63.0	63.6	
≥ 3500		78.4	43.6	48.0	52.9	54.8	58.4	60.9	61.9	62.7	63.0	63.0	63.2	63.7	64.0	64.6	
≥ 3000		79.3	45.5	49.9	54.8	56.8	60.3	62.8	63.8	64.6	64.9	64.9	65.1	65.6	65.9	66.5	
≥ 2500		80.1	46.5	51.3	56.2	58.1	62.1	64.6	65.6	66.4	66.7	66.7	66.9	67.4	67.7	68.3	
≥ 2000		80.5	46.8	51.7	56.8	58.7	62.7	65.2	66.2	67.0	67.3	67.3	67.5	68.0	68.3	68.9	
≥ 1800		80.7	47.2	52.4	57.7	59.6	63.7	66.3	67.3	68.2	68.5	68.6	68.9	69.4	69.8	70.4	
≥ 1600		81.1	48.1	53.4	58.9	60.8	64.9	67.6	68.6	69.5	69.8	69.9	70.3	70.7	71.1	71.7	
≥ 1400		81.5	48.7	54.4	60.0	61.9	65.9	68.7	69.7	70.6	71.2	71.3	71.7	72.2	72.5	73.1	
≥ 1200		81.6	48.9	54.5	60.6	62.6	66.7	69.4	70.4	71.3	71.9	72.3	72.4	72.9	73.2	73.8	
≥ 1000		81.7	49.2	54.8	60.9	63.1	67.3	70.1	71.1	72.0	72.6	72.8	73.1	73.6	74.0	74.6	
≥ 900		82.2	49.7	55.3	61.4	63.7	68.1	71.1	72.0	73.0	73.6	73.7	74.1	74.6	74.9	75.5	
≥ 800		82.2	49.8	55.8	61.9	64.4	68.9	72.0	73.0	74.0	74.9	75.0	75.4	75.9	76.3	76.9	
≥ 700		82.7	50.0	57.0	63.8	66.4	71.2	74.3	75.4	76.5	77.4	77.5	78.0	78.5	79.0	79.6	
≥ 600		83.2	51.4	57.7	64.6	67.6	72.8	76.5	77.8	78.9	79.8	80.0	80.5	81.0	81.7	82.3	
≥ 500		83.4	51.5	57.8	65.4	68.7	74.7	78.9	80.9	82.7	84.3	84.6	85.2	85.7	86.4	87.3	
≥ 400		83.4	51.5	57.8	65.4	68.8	75.0	79.8	82.0	84.3	87.7	87.9	89.4	90.0	91.2	93.3	
≥ 300		83.4	51.5	57.8	65.4	68.8	75.0	80.0	82.3	85.1	88.4	88.6	90.2	90.8	93.3	97.5	
≥ 200		83.4	51.5	57.8	65.4	68.8	75.0	80.0	82.3	85.1	88.4	88.6	90.3	91.0	93.5	100.0	
≥ 100		83.4	51.5	57.8	65.4	68.8	75.0	80.0	82.3	85.1	88.4	88.6	90.3	91.0	93.5	100.0	
≥ 0		83.4	51.5	57.8	65.4	68.8	75.0	80.0	82.3	85.1	88.4	88.6	90.3	91.0	93.5	100.0	

TOTAL NUMBER OF OBSERVATIONS 837

CENTRAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

## CEILING VERSUS VISIBILITY

100835 MATHER AFB CA

73-81

DEC

STATION

STATION NAME

YEARS

MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)

1630-0800  
HOURS (L.S.T.)

CEILING (FEET)	VISIBILITY STATUTE MILES															
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2 1/2	≥ 2	≥ 1 1/2	≥ 1 1/4	≥ 1	≥ 3/4	≥ 3/8	≥ 1/2	≥ 1/4	≥ 1/8	≥ 0
NO CEILING ≥ 20000		27.3	27.9	30.8	31.1	37.3	39.7	42.9	44.2	44.3	44.9	45.0	45.2	45.3	45.6	47.1
≥ 18000 ≥ 16000		27.2	29.0	32.0	36.6	38.7	41.1	44.3	45.8	46.5	46.8	47.0	47.1	47.3	47.8	49.1
≥ 14000 ≥ 12000		27.5	31.1	32.3	36.9	39.1	41.6	44.8	46.2	47.0	47.3	47.4	47.6	47.8	48.3	49.6
≥ 10000 ≥ 8000		27.8	31.7	32.7	37.6	39.8	42.3	45.6	47.1	47.8	48.1	48.3	48.4	48.6	49.1	50.4
≥ 6000 ≥ 5000		27.7	31.9	34.1	38.1	41.3	43.8	47.3	48.7	49.5	49.8	49.9	50.1	50.3	51.0	52.3
≥ 4500 ≥ 4000		31.1	34.1	36.7	40.2	44.6	47.2	51.9	52.6	53.3	53.6	53.8	54.0	54.4	55.1	56.4
≥ 3500 ≥ 3000		32.0	35.4	38.1	43.8	46.4	49.0	52.7	54.4	55.2	55.6	55.7	55.9	56.3	57.0	58.4
≥ 2500 ≥ 2000		33.2	36.6	39.3	45.2	47.7	50.7	54.4	56.1	56.9	57.2	57.3	57.6	57.9	58.7	60.1
≥ 1800 ≥ 1500		34.4	38.4	41.5	48.3	50.8	54.0	57.7	59.4	60.3	60.8	60.9	61.3	61.6	62.4	63.8
≥ 1200 ≥ 1000		34.5	39.5	41.6	49.1	51.6	55.0	58.7	60.3	61.3	61.8	61.9	62.2	62.6	63.3	64.8
≥ 900 ≥ 800		35.1	39.1	42.4	49.8	52.3	55.7	59.5	61.2	62.1	62.6	62.7	63.1	63.6	64.3	65.7
≥ 700 ≥ 600		35.5	39.9	43.2	50.7	53.0	56.6	60.5	62.1	63.1	63.6	63.7	64.0	64.5	65.2	66.7
≥ 500 ≥ 400		36.7	41.3	44.8	52.3	55.0	59.3	62.2	63.9	64.9	65.4	65.5	65.8	66.3	67.0	68.5
≥ 300 ≥ 200		36.7	41.3	44.9	52.4	55.1	59.4	62.4	64.1	65.0	65.5	65.6	65.9	66.4	67.1	68.6
≥ 100 ≥ 0		37.2	41.8	45.4	53.0	55.7	59.3	63.2	64.9	65.9	66.4	66.5	67.1	67.6	68.3	69.8
≥ 100 ≥ 0		37.8	42.0	46.4	54.4	57.2	60.9	65.0	66.7	67.7	68.3	68.5	69.1	69.5	70.3	71.7
≥ 100 ≥ 0		38.1	43.2	47.0	55.2	58.2	62.0	66.4	68.1	69.2	69.8	69.9	70.5	71.0	71.7	73.1
≥ 100 ≥ 0		38.4	43.5	47.2	55.6	58.7	62.5	66.9	68.6	69.7	70.3	70.4	71.0	71.4	72.2	73.6
≥ 100 ≥ 0		38.8	44.1	47.8	56.6	59.9	63.7	68.2	70.0	71.1	71.7	71.3	72.4	72.9	73.6	75.0
≥ 100 ≥ 0		38.9	44.2	48.0	57.0	60.3	64.3	68.9	70.6	72.0	72.6	72.8	73.4	73.8	74.6	76.0
≥ 100 ≥ 0		39.1	44.7	48.7	58.1	61.5	65.8	70.8	72.9	74.3	74.9	75.0	75.6	76.2	77.1	78.5
≥ 100 ≥ 0		39.1	44.8	49.0	58.3	62.1	67.5	73.1	75.7	77.9	79.0	79.1	79.7	80.3	81.1	82.9
≥ 100 ≥ 0		39.1	44.8	49.1	59.0	63.0	68.5	75.3	78.4	81.6	83.0	83.3	84.1	84.7	85.5	87.7
≥ 100 ≥ 0		39.1	44.8	49.1	59.0	63.0	68.5	75.5	79.2	83.0	84.9	85.3	86.5	87.7	89.0	92.7
≥ 100 ≥ 0		39.1	44.8	49.1	59.0	63.0	68.5	75.5	79.2	83.2	85.4	85.9	87.1	88.9	91.3	97.5
≥ 100 ≥ 0		39.1	44.8	49.1	59.0	63.0	68.5	75.5	79.2	83.2	85.4	85.9	87.1	88.9	91.4	100.0

TOTAL NUMBER OF OBSERVATIONS 837

LOCAL CLIMATOLOGY BRANCH  
 ETAC  
 WEATHER SERVICE/MAC

# CEILING VERSUS VISIBILITY

835 MATHER AFB CA

73-81

DEC

STATION

STATION NAME

YEARS

MONTH

## PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

1900-1100

HOURS (L.S.T.)

CEILING (FEET)	VISIBILITY - STATUTE MILES															
	≥10	≥6	≥5	≥4	≥3	≥2 1/2	≥2	≥1 1/2	≥1 1/4	≥1	≥3/4	≥3/8	≥1/2	≥1/4	≥1/8	≥0
NO CEILING ≥20000		32.3	27.1	31.2	37.8	38.4	47.6	42.8	43.2	43.6	43.8	43.3	44.3	44.1	44.2	44.4
≥18000		24.1	29.8	33.5	37.8	41.7	44.1	46.5	47.0	47.3	47.8	48.0	48.4	48.5	48.6	48.9
≥16000		24.3	29.9	33.6	37.4	42.3	44.8	47.2	47.7	48.0	48.5	48.7	49.1	49.2	49.3	49.6
≥14000		24.7	29.8	34.4	41.7	42.9	45.4	47.9	48.4	48.7	49.2	49.5	49.8	49.9	50.1	50.3
≥12000		25.8	31.7	35.5	42.5	44.4	47.0	49.8	50.3	50.8	51.4	51.6	52.1	52.2	52.3	52.6
≥10000		27.4	33.0	37.9	45.6	47.7	50.4	53.3	53.8	54.2	54.8	55.2	55.8	56.2	56.3	56.5
≥9000		27.4	33.0	37.9	45.6	47.7	50.4	53.3	53.8	54.2	55.0	55.3	55.9	56.3	56.4	56.6
≥8000		27.3	35.7	40.4	48.3	50.3	53.0	56.2	56.6	57.1	57.8	58.2	58.8	59.1	59.3	59.5
≥7000		24.7	35.8	40.3	48.7	50.8	53.5	56.8	57.2	57.7	58.5	58.9	59.5	59.9	60.0	60.2
≥6000		31.3	36.2	41.7	49.9	52.2	55.0	58.2	58.7	59.3	60.2	60.6	61.2	61.5	61.6	61.9
≥5000		31.3	37.4	43.1	51.4	53.6	56.4	60.1	60.6	61.3	62.4	62.7	63.3	63.7	63.8	64.0
≥4500		31.5	37.6	43.6	52.2	54.6	57.3	61.4	62.0	63.1	64.2	64.5	65.1	65.5	65.6	65.8
≥4000		31.7	37.9	43.8	52.6	55.2	57.7	61.8	62.4	63.4	64.5	64.9	65.5	65.8	65.9	66.2
≥3500		31.9	38.1	44.1	52.9	55.3	58.1	62.1	62.7	63.9	65.0	65.4	65.9	66.3	66.4	66.7
≥3000		33.6	37.8	45.8	54.7	57.1	59.9	64.0	64.6	65.8	66.9	67.3	67.9	68.2	68.3	68.6
≥2500		33.6	39.8	45.9	54.8	57.2	60.1	64.3	64.9	66.1	67.1	67.5	68.1	68.5	68.6	68.8
≥2000		33.6	39.9	46.0	55.1	57.5	60.3	64.6	65.4	66.5	67.6	68.0	68.6	68.9	69.1	69.3
≥1800		33.7	40.1	46.4	55.7	58.1	61.1	65.5	66.2	67.5	68.6	68.9	69.5	69.9	70.0	70.3
≥1500		34.1	40.5	46.8	56.6	59.1	62.1	66.9	67.6	69.1	70.1	70.5	71.1	71.6	71.7	71.9
≥1200		34.9	41.7	47.7	57.9	60.7	63.8	68.7	69.4	70.8	71.9	72.3	72.9	73.4	73.5	73.7
≥1000		35.2	41.7	48.1	58.4	61.3	65.1	70.5	71.2	72.8	73.9	74.2	74.8	75.3	75.4	75.6
≥900		35.5	41.9	48.4	58.9	61.9	65.8	71.3	72.0	73.6	74.7	75.0	75.6	76.1	76.2	76.5
≥800		35.6	42.1	48.6	59.4	62.4	66.5	72.0	72.9	74.4	75.6	76.0	76.6	77.1	77.2	77.4
≥700		35.6	42.3	48.9	59.7	62.7	67.0	72.8	73.7	75.4	76.6	76.9	77.5	78.0	78.1	78.4
≥600		35.6	42.3	49.0	60.1	63.3	68.0	74.3	75.4	77.1	78.3	78.6	79.2	79.7	79.8	80.0
≥500		35.6	42.3	49.1	60.5	63.9	69.2	76.8	78.0	80.0	81.2	81.7	82.4	82.9	83.2	83.3
≥400		35.7	42.4	49.2	60.7	65.0	71.0	80.4	82.1	84.5	85.7	86.1	87.2	87.7	88.1	88.5
≥300		35.7	42.4	49.2	60.7	65.1	71.1	82.1	84.1	87.1	89.2	89.8	91.2	91.9	92.4	93.0
≥200		35.7	42.4	49.2	60.7	65.1	71.1	82.4	84.6	87.9	90.4	91.3	92.8	94.3	95.2	96.8
≥100		35.7	42.4	49.2	60.7	65.1	71.1	82.4	84.6	87.9	90.4	91.3	92.8	94.6	95.8	99.3
≥0		35.7	42.4	49.2	60.7	65.1	71.1	82.4	84.6	87.9	90.4	91.3	92.8	94.6	95.8	100.0

TOTAL NUMBER OF OBSERVATIONS 837

GENERAL CLIMATOLOGY BRANCH  
USAF ETAC  
AIR WEATHER SERVICE/MAC

## CEILING VERSUS VISIBILITY

10839 MATHER AFB CA

73-81

DEC

STATION

STATION NAME

YEARS

MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)

1200-1400  
HOURS (L.A.T.)

CEILING (FEET)	VISIBILITY STATUTE MILES															
	≥10	≥8	≥5	≥4	≥3	≥2½	≥2	≥1½	≥1¼	≥1	¾	¾	¾	≥½	≥3/16	≥¼
NO CEILING		27.7	26.2	31.9	40.3	43.4	45.9	47.2	47.4	47.6	47.6	47.6	47.6	47.8	47.8	47.8
≥20000		27.2	3.3	36.7	46.6	49.9	53.0	54.7	55.1	55.2	55.2	55.2	55.2	55.4	55.4	55.4
≥18000		27.2	3.3	36.7	46.6	49.9	53.0	54.7	55.1	55.2	55.2	55.2	55.2	55.4	55.4	55.4
≥16000		27.4	3.5	37.2	47.1	51.4	53.5	55.2	55.6	55.7	55.7	55.7	55.7	55.9	55.9	55.9
≥14000		28.1	3.5	38.2	48.1	51.5	54.6	56.5	56.9	57.0	57.0	57.0	57.0	57.2	57.2	57.2
≥12000		29.2	3.5	39.8	47.7	53.0	56.4	58.7	59.1	59.1	59.1	59.1	59.1	59.4	59.4	59.4
≥10000		31.1	35.4	42.2	52.3	55.8	59.1	61.4	61.8	61.9	61.9	61.9	61.9	62.1	62.5	62.5
≥9000		31.1	35.4	42.2	52.3	55.8	59.1	61.4	61.8	61.9	61.9	61.9	61.9	62.1	62.5	62.5
≥8000		32.4	37.2	44.0	54.5	57.9	61.3	63.6	63.9	64.0	64.0	64.0	64.0	64.3	64.6	64.6
≥7000		32.9	37.6	44.4	55.0	58.7	62.1	64.5	64.9	65.0	65.0	65.0	65.0	65.2	65.6	65.6
≥6000		33.1	37.5	44.8	55.4	59.1	62.7	65.2	65.6	65.7	65.7	65.7	65.7	65.9	66.3	66.3
≥5000		33.9	38.8	46.1	57.1	60.8	64.6	67.3	67.6	67.7	67.7	67.7	67.7	68.0	68.3	68.3
≥4500		34.5	39.4	47.0	58.5	62.2	66.1	68.8	69.2	69.3	69.3	69.3	69.3	69.5	69.9	69.9
≥4000		35.7	40.4	48.5	60.1	63.9	67.9	70.6	71.0	71.1	71.1	71.1	71.1	71.3	71.7	71.7
≥3500		36.3	41.5	49.1	60.7	64.6	68.7	71.4	71.8	71.9	71.9	71.9	71.9	72.2	72.5	72.5
≥3000		37.5	42.8	50.5	62.1	66.1	70.5	73.4	73.7	73.8	73.8	73.8	73.8	74.1	74.4	74.4
≥2500		38.0	43.4	51.1	62.8	66.8	71.2	74.2	74.6	74.7	74.7	74.7	74.7	74.9	75.3	75.3
≥2000		38.6	44.7	52.7	64.4	68.3	72.8	75.7	76.1	76.2	76.2	76.2	76.2	76.5	76.8	76.8
≥1800		38.7	44.8	52.8	64.5	68.5	72.9	75.9	76.2	76.3	76.3	76.3	76.3	76.6	76.9	76.9
≥1600		39.1	45.4	53.6	65.6	69.5	74.0	77.3	77.7	77.8	77.8	77.8	77.8	78.0	78.4	78.4
≥1200		39.4	45.9	54.5	66.7	70.7	75.5	79.0	79.3	79.5	79.5	79.5	79.5	79.7	80.0	80.0
≥1000		39.8	46.5	55.4	68.7	73.1	79.3	81.7	82.2	82.4	82.4	82.4	82.4	82.7	83.0	83.0
≥900		37.9	46.6	55.7	69.2	73.7	79.0	83.3	83.8	84.0	84.0	84.0	84.0	84.2	84.6	84.6
≥800		39.9	46.6	55.7	69.3	74.1	79.5	83.8	84.2	84.5	84.5	84.5	84.5	84.8	85.2	85.2
≥700		41.0	47.7	56.4	70.1	75.4	81.1	85.5	86.0	86.3	86.3	86.3	86.3	86.6	87.0	87.0
≥600		41.0	47.7	56.4	70.1	75.4	81.1	85.5	86.0	86.3	86.3	86.3	86.3	86.6	87.0	87.0
≥500		40.0	47.7	56.8	71.3	77.7	84.8	91.6	92.6	93.1	93.1	93.1	93.1	93.4	93.8	93.8
≥400		40.0	47.7	56.8	71.6	78.1	85.3	93.0	94.5	95.0	95.1	95.1	95.1	95.3	95.8	96.5
≥300		40.0	47.0	56.8	71.6	78.3	85.8	94.0	95.8	96.5	97.0	97.3	97.3	97.8	98.8	99.0
≥200		40.0	47.0	56.8	71.6	78.3	85.8	94.0	95.8	96.5	97.0	97.4	97.4	98.4	99.4	99.5
≥100		40.0	47.0	56.8	71.6	78.3	85.8	94.0	95.8	96.5	97.0	97.4	97.4	98.4	99.4	99.8
≥0		40.0	47.0	56.8	71.6	78.3	85.8	94.0	95.8	96.5	97.0	97.4	97.4	98.4	99.4	100.0

TOTAL NUMBER OF OBSERVATIONS 837

GENERAL CLIMATOLOGY REPORT  
 USAF ETAC  
 AIR WEATHER SERVICE/MAAC

# CEILING VERSUS VISIBILITY

835 MATHER AFB CA

73-61

DEC

STATION

STATION NAME

YEARS

MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE  
 (FROM HOURLY OBSERVATIONS)

1500-1700  
 HOURS (L.S.T.)

CEILING (FEET)	VISIBILITY STATUTE MILES															
	≥10	≥6	≥5	≥4	≥3	≥2½	≥2	≥1½	≥1¼	≥1	¾	¾	¾	¾	≥5/16	≥0
NO CEILING		20.6	33.3	41.1	47.2	51.6	54.5	55.6	55.9	55.9	56.0	56.0	56.3	56.3	56.3	56.3
≥ 20000		27.9	35.1	43.1	50.1	55.4	59.3	60.7	61.2	61.3	61.4	61.4	61.7	61.7	61.7	61.7
≥ 18000		30.1	35.3	43.4	51.5	55.9	59.8	61.3	61.8	61.9	62.0	62.0	62.3	62.3	62.3	62.3
≥ 16000		30.1	35.3	43.6	51.8	56.2	60.0	61.8	62.3	62.4	62.5	62.5	62.8	62.8	62.8	62.8
≥ 14000		31.9	36.2	44.4	51.7	57.1	61.0	62.8	63.2	63.4	63.5	63.5	63.7	63.7	63.7	63.7
≥ 12000		31.6	36.9	45.3	52.6	58.0	61.9	63.8	64.3	64.4	64.6	64.6	64.8	64.8	64.8	64.8
≥ 10000		34.4	40.2	49.1	56.6	62.0	66.5	68.4	68.9	69.0	69.1	69.1	69.3	69.3	69.3	69.3
≥ 9000		34.7	40.6	49.6	57.5	62.9	67.3	69.2	69.7	69.8	69.9	69.9	70.2	70.2	70.2	70.2
≥ 8000		35.9	42.3	51.7	59.8	65.1	69.6	71.5	72.1	72.2	72.3	72.3	72.6	72.6	72.8	72.8
≥ 7000		36.2	42.5	52.0	60.0	65.4	69.8	71.7	72.3	72.5	72.6	72.6	72.8	73.1	73.1	73.1
≥ 6000		36.8	43.2	52.7	60.7	66.1	70.5	72.6	73.2	73.3	73.4	73.4	73.7	73.9	73.9	73.9
≥ 5000		37.1	43.6	53.1	61.1	66.5	70.9	73.1	73.7	73.8	73.9	73.9	74.1	74.4	74.4	74.4
≥ 4500		37.8	44.4	53.9	62.0	67.4	71.9	74.0	74.6	74.7	74.9	74.9	75.1	75.3	75.3	75.3
≥ 4000		39.2	46.0	55.7	64.0	69.5	73.9	76.0	76.6	76.9	77.0	77.0	77.2	77.5	77.5	77.5
≥ 3500		39.9	46.7	56.4	64.9	70.7	75.1	77.7	78.3	78.6	78.7	78.7	78.9	79.2	79.2	79.2
≥ 3000		41.2	48.4	58.1	66.7	72.5	76.9	79.9	80.5	80.7	80.8	80.8	81.1	81.3	81.3	81.3
≥ 2500		41.4	48.7	58.6	67.5	73.4	77.8	80.8	81.4	81.7	81.8	81.8	82.0	82.3	82.3	82.3
≥ 2000		41.7	49.1	58.8	68.3	74.4	78.9	81.9	82.6	82.9	83.0	83.1	83.4	83.6	83.6	83.6
≥ 1800		41.7	49.1	58.9	68.4	74.5	79.0	82.0	82.8	83.0	83.1	83.2	83.5	83.7	83.7	83.7
≥ 1500		41.7	49.1	59.4	69.0	75.1	79.6	82.6	83.4	83.6	83.7	83.8	84.1	84.3	84.3	84.3
≥ 1200		41.8	49.5	60.0	70.2	76.5	81.3	84.4	85.1	85.4	85.5	85.6	85.9	86.1	86.1	86.1
≥ 1000		42.3	49.9	60.7	71.1	77.6	82.5	86.1	86.8	87.2	87.3	87.4	87.7	87.9	87.9	87.9
≥ 900		42.3	49.9	60.7	71.4	78.2	83.6	87.5	88.3	88.6	88.7	88.9	89.1	89.3	89.3	89.3
≥ 800		42.4	50.1	61.1	71.7	78.8	84.4	88.5	89.3	89.7	89.8	89.9	90.2	90.4	90.4	90.4
≥ 700		42.4	50.1	61.3	72.3	80.2	86.1	90.3	91.3	91.6	91.7	91.9	92.1	92.3	92.3	92.3
≥ 600		42.5	50.5	61.8	73.4	81.4	88.3	92.9	93.9	94.3	94.4	94.5	94.7	95.0	95.0	95.0
≥ 500		42.5	50.5	61.9	74.4	82.4	89.8	94.7	95.8	96.3	96.4	96.5	96.8	97.0	97.0	97.0
≥ 400		42.5	50.5	61.9	74.5	82.5	89.9	95.1	96.5	97.0	97.1	97.2	97.5	97.7	97.7	97.7
≥ 300		42.5	50.5	61.9	74.5	82.5	89.9	95.2	96.8	97.4	97.7	97.8	98.1	98.4	98.4	98.9
≥ 200		42.5	50.5	61.9	74.5	82.5	90.1	95.3	96.9	97.6	98.0	98.1	98.4	98.9	98.9	99.6
≥ 100		42.5	50.5	61.9	74.5	82.5	90.1	95.3	96.9	97.6	98.0	98.1	98.4	99.0	99.0	99.9
≥ 0		42.5	50.5	61.9	74.5	82.5	90.1	95.3	96.9	97.6	98.0	98.1	98.4	99.0	99.0	100.0

TOTAL NUMBER OF OBSERVATIONS 835

CLIMATE CLIMATOLOGY BRANCH  
USAF ETAC  
AIR WEATHER SERVICE/MAC

## CEILING VERSUS VISIBILITY

000335 MATHER AFB CA

73-81

DEC

STATION STATION NAME

YEARS

MONTH

### PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

1800-2000  
HOURS (L.S.T.)

CEILING (FEET)	VISIBILITY: STATUTE MILES															
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1¼	≥ 1	≥ ¾	≥ ½	≥ ¼	≥ 1/16	≥ 1/8	≥ 0
NO CEILING ≥ 20000		72.1	36.4	41.5	49.3	51.9	54.4	56.5	57.1	57.7	58.1	58.6	59.2	58.3	58.5	58.7
≥ 18500 ≥ 6000		73.1	37.6	43.3	52.1	55.0	57.6	60.0	60.6	61.2	61.6	61.6	61.9	62.1	62.2	62.4
≥ 14000 ≥ 2000		53.3	37.7	43.5	52.3	55.2	57.9	60.4	61.0	61.6	61.9	61.9	62.3	62.4	62.5	62.8
≥ 10000 ≥ 9000		53.3	37.7	43.5	52.5	55.3	58.1	60.5	61.1	61.7	62.2	62.2	62.5	62.7	62.9	63.1
≥ 8000 ≥ 7000		53.4	37.8	43.6	52.7	55.6	58.2	60.9	61.5	62.1	62.5	62.5	62.9	63.0	63.3	63.5
≥ 6000 ≥ 5000		36.2	33.7	44.4	53.5	56.4	59.2	61.8	62.4	63.0	63.5	63.5	63.9	64.0	64.2	64.5
≥ 4500 ≥ 4000		36.9	41.3	47.1	56.9	59.8	62.8	65.8	66.4	67.0	67.5	67.5	67.8	67.9	68.2	68.4
≥ 3500 ≥ 3000		36.9	41.3	47.1	56.9	59.8	62.8	65.8	66.4	67.0	67.5	67.5	67.8	67.9	68.2	68.4
≥ 2500 ≥ 2000		37.8	42.4	49.0	59.4	62.3	65.3	68.3	68.9	69.5	70.1	70.1	70.5	70.6	70.8	71.1
≥ 1800 ≥ 1500		38.3	42.9	49.5	60.0	62.9	65.9	68.9	69.5	70.1	70.7	70.7	71.1	71.2	71.4	71.7
≥ 1200 ≥ 1000		39.4	43.0	49.6	60.1	63.3	66.3	69.3	69.9	70.5	71.1	71.1	71.4	71.5	71.8	72.0
≥ 900 ≥ 800		39.4	43.0	49.6	60.1	63.3	66.3	69.3	69.9	70.5	71.1	71.1	71.4	71.5	71.8	72.0
≥ 700 ≥ 600		40.2	44.9	51.6	62.4	65.5	68.7	71.8	72.4	73.0	73.6	73.6	73.9	74.1	74.3	74.5
≥ 500 ≥ 400		40.8	45.6	52.3	63.6	66.9	70.1	73.5	74.1	74.7	75.3	75.3	75.6	75.8	76.0	76.2
≥ 300 ≥ 200		41.8	46.6	53.4	64.8	68.2	71.4	74.9	75.5	76.1	76.7	76.7	77.1	77.2	77.4	77.7
≥ 100 ≥ 0		42.5	47.7	54.5	66.1	69.9	73.1	76.6	77.2	77.9	78.5	78.5	78.9	79.0	79.2	79.5
≥ 100 ≥ 0		42.9	48.1	55.1	67.0	70.7	73.9	77.6	78.2	78.9	79.5	79.5	79.8	80.0	80.2	80.4
≥ 100 ≥ 0		43.2	48.5	55.6	67.8	71.8	75.0	78.6	79.2	80.0	80.6	80.6	80.9	81.0	81.3	81.5
≥ 100 ≥ 0		43.2	48.5	55.6	67.8	71.8	75.0	78.6	79.2	80.0	80.6	80.6	80.9	81.0	81.3	81.5
≥ 100 ≥ 0		43.5	48.9	56.3	68.7	73.5	76.8	80.4	81.2	81.9	82.5	82.5	82.8	83.1	83.3	83.6
≥ 100 ≥ 0		44.3	50.4	58.1	70.7	75.6	79.2	82.8	83.7	84.4	85.0	85.0	85.4	85.6	85.8	86.1
≥ 100 ≥ 0		44.4	50.8	58.8	72.5	77.9	81.5	85.4	86.3	87.0	87.6	87.6	88.0	88.2	88.5	88.7
≥ 100 ≥ 0		44.9	51.3	59.3	73.5	79.0	82.7	86.6	87.5	88.2	88.8	88.8	89.2	89.4	89.7	89.9
≥ 100 ≥ 0		45.4	51.7	59.9	74.7	80.3	84.2	88.1	89.1	89.8	90.4	90.4	90.8	91.0	91.2	91.5
≥ 100 ≥ 0		45.6	52.0	60.5	75.3	80.9	84.9	89.0	89.9	90.6	91.2	91.2	91.6	91.8	92.1	92.3
≥ 100 ≥ 0		45.9	52.2	60.7	76.0	81.6	86.0	90.2	91.2	92.0	92.6	92.6	92.9	93.2	93.5	93.8
≥ 100 ≥ 0		45.9	52.2	60.7	76.2	82.2	86.7	91.0	92.2	93.0	93.6	93.6	94.0	94.2	94.6	95.3
≥ 100 ≥ 0		45.9	52.2	60.7	76.2	82.2	87.0	91.5	92.7	93.5	94.7	94.7	95.2	95.6	95.9	97.0
≥ 100 ≥ 0		45.9	52.2	60.7	76.2	82.2	87.0	91.6	92.8	93.6	94.8	95.0	95.6	95.9	96.5	98.4
≥ 100 ≥ 0		45.9	52.2	60.7	76.2	82.2	87.0	91.6	92.8	93.6	95.0	95.1	95.7	96.0	96.9	100.0

TOTAL NUMBER OF OBSERVATIONS 833

CLIMATE CLIMATOLOGY BRANCH  
 METAC  
 AIR WEATHER SERVICE/MAC

# CEILING VERSUS VISIBILITY

835

MATHER AFB CA

73-81

DEC

STATION

STATION NAME

YEARS

MONTH

## PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

2100-2300  
 HOURS (L.S.T.)

CEILING (FEET)	VISIBILITY STATUTE MILES																
	≥10	≥6	≥5	≥4	≥3	≥2½	≥2	≥1½	≥1¼	≥1	¾	¾	¾	¾	≥5/16	≥¼	≥0
NO CEILING																	
≥ 20000	71.1	33.5	38.2	47.6	43.9	51.6	53.8	54.2	54.7	55.2	55.2	55.8	55.9	56.4	56.8	56.8	56.8
≥ 18000	32.4	34.3	39.9	51.0	51.4	54.1	56.4	56.7	57.2	57.7	57.7	58.3	58.4	58.9	59.4	59.4	59.4
≥ 16000	32.5	34.4	41.0	51.1	51.6	54.2	56.5	56.8	57.3	57.8	57.8	58.4	58.5	59.0	59.5	59.5	59.5
≥ 14000	32.5	34.9	41.0	51.1	51.6	54.2	56.5	56.8	57.3	57.8	57.8	58.4	58.5	59.0	59.5	59.5	59.5
≥ 12000	32.7	35.3	41.4	51.7	52.2	54.8	57.1	57.4	57.9	58.4	58.4	59.0	59.1	59.6	60.1	60.1	60.1
≥ 10000	33.3	35.9	41.9	51.3	52.8	55.4	57.7	58.0	58.5	59.0	59.0	59.6	59.8	60.3	60.8	60.8	60.8
≥ 9000	35.5	38.1	43.5	54.0	55.4	58.4	60.8	61.3	61.9	62.4	62.4	63.2	63.4	63.9	64.4	64.4	64.4
≥ 8000	35.7	38.4	43.8	54.2	55.6	58.6	61.0	61.5	62.1	62.6	62.6	63.4	63.7	64.1	64.6	64.6	64.6
≥ 7000	36.5	39.1	44.7	55.6	57.1	60.3	62.7	63.2	63.8	64.3	64.3	65.1	65.3	65.8	66.3	66.3	66.3
≥ 6000	37.2	39.8	45.4	56.4	57.8	61.0	63.4	63.9	64.5	65.0	65.0	65.8	66.1	66.5	67.0	67.0	67.0
≥ 5000	37.5	40.4	46.3	57.6	59.0	62.2	64.6	65.1	65.7	66.2	66.2	67.0	67.3	67.7	68.2	68.2	68.2
≥ 4500	38.5	41.6	47.5	58.8	60.2	63.4	65.8	66.3	66.9	67.4	67.4	68.2	68.5	68.9	69.4	69.4	69.4
≥ 4000	39.1	42.2	48.1	59.5	60.9	64.1	66.5	67.0	67.6	68.1	68.1	68.9	69.2	69.7	70.1	70.1	70.1
≥ 3500	40.0	43.6	49.6	61.2	62.7	66.2	68.6	69.1	69.7	70.1	70.1	71.0	71.2	71.7	72.2	72.2	72.2
≥ 3000	41.1	44.8	51.0	62.6	64.1	67.6	70.0	70.5	71.1	71.6	71.6	72.4	72.7	73.1	73.6	73.6	73.6
≥ 2500	41.7	45.4	51.7	63.9	65.5	68.9	71.3	71.8	72.4	72.9	72.9	73.7	74.0	74.5	74.9	74.9	74.9
≥ 2000	42.0	45.7	51.9	64.1	65.7	69.2	71.6	72.1	72.7	73.1	73.1	74.0	74.2	74.7	75.2	75.2	75.2
≥ 1800	42.3	46.0	52.3	64.5	66.1	69.5	72.2	72.7	73.3	73.7	73.7	74.6	74.8	75.3	75.8	75.8	75.8
≥ 1500	42.3	46.0	52.3	64.5	66.1	69.5	72.2	72.7	73.3	73.7	73.7	74.6	74.8	75.3	75.8	75.8	75.8
≥ 1200	42.6	46.5	52.8	65.3	66.9	70.4	73.0	73.5	74.1	74.6	74.6	75.4	75.8	76.3	76.7	76.7	76.7
≥ 1000	43.0	47.0	53.6	66.5	68.3	71.8	74.5	74.9	75.5	76.0	76.0	76.9	77.2	77.7	78.2	78.2	78.2
≥ 900	43.5	47.8	54.4	67.4	69.3	72.8	75.4	75.9	76.5	77.0	77.0	77.9	78.3	78.8	79.3	79.3	79.3
≥ 800	43.9	48.3	55.2	68.2	70.4	74.0	76.9	77.3	77.9	78.4	78.4	79.4	79.7	80.2	80.7	80.7	80.7
≥ 700	44.0	48.7	55.6	68.7	70.9	74.8	77.7	78.2	78.8	79.3	79.3	80.2	80.6	81.1	81.5	81.5	81.5
≥ 600	44.5	49.3	56.4	69.5	71.7	75.7	78.9	79.4	80.0	80.5	80.5	81.4	81.8	82.3	82.7	82.7	82.7
≥ 500	45.3	50.1	57.4	71.3	73.5	77.5	80.8	81.4	82.0	82.5	82.5	83.6	84.1	84.8	85.3	85.3	85.3
≥ 400	45.4	50.5	57.9	71.8	74.2	78.4	82.0	82.6	83.2	83.7	83.7	84.8	85.3	86.0	86.5	86.5	86.5
≥ 300	45.9	51.0	58.4	72.4	75.5	80.1	84.3	85.0	85.6	86.1	86.1	87.2	87.6	88.4	89.8	89.8	89.8
≥ 200	46.3	51.4	59.0	73.3	76.5	81.7	86.3	87.3	88.4	89.2	89.2	90.9	91.6	92.4	94.6	94.6	94.6
≥ 100	46.3	51.4	59.0	73.3	76.5	81.7	86.3	87.3	88.4	89.2	89.2	90.9	91.6	92.4	94.6	94.6	94.6
0	46.3	51.4	59.0	73.3	76.5	81.7	86.3	87.3	88.4	89.2	89.2	90.9	91.6	92.4	94.6	94.6	94.6

TOTAL NUMBER OF OBSERVATIONS 834



CLIMATE CLIMATOLOGY BRANCH  
AFETAC  
AF WEATHER SERVICE/MAC

## CEILING VERSUS VISIBILITY

14835 WATHER AFB CA

73-81

DEC

STATION

STATION NAME

YEARS

MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)

ALL  
HOURS (L.S.T.)

CEILING (FEET)	VISIBILITY STATUTE MILES															
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1¼	≥ 1	≥ ¾	≥ ½	≥ ¼	≥ 1/16	≥ 0	≥ 0
NO CEILING		23.0	31.0	36.1	42.4	44.7	47.1	49.3	49.8	50.2	50.4	50.4	50.7	50.7	50.9	51.4
≥ 20000		23.0	31.0	36.1	42.4	44.7	47.1	49.3	49.8	50.2	50.4	50.4	50.7	50.7	50.9	51.4
≥ 18000		23.0	31.0	36.1	42.4	44.7	47.1	49.3	49.8	50.2	50.4	50.4	50.7	50.7	50.9	51.4
≥ 16000		23.0	31.0	36.1	42.4	44.7	47.1	49.3	49.8	50.2	50.4	50.4	50.7	50.7	50.9	51.4
≥ 14000		23.0	31.0	36.1	42.4	44.7	47.1	49.3	49.8	50.2	50.4	50.4	50.7	50.7	50.9	51.4
≥ 12000		23.0	31.0	36.1	42.4	44.7	47.1	49.3	49.8	50.2	50.4	50.4	50.7	50.7	50.9	51.4
≥ 10000		23.0	31.0	36.1	42.4	44.7	47.1	49.3	49.8	50.2	50.4	50.4	50.7	50.7	50.9	51.4
≥ 8000		23.0	31.0	36.1	42.4	44.7	47.1	49.3	49.8	50.2	50.4	50.4	50.7	50.7	50.9	51.4
≥ 7000		23.0	31.0	36.1	42.4	44.7	47.1	49.3	49.8	50.2	50.4	50.4	50.7	50.7	50.9	51.4
≥ 6000		23.0	31.0	36.1	42.4	44.7	47.1	49.3	49.8	50.2	50.4	50.4	50.7	50.7	50.9	51.4
≥ 5000		23.0	31.0	36.1	42.4	44.7	47.1	49.3	49.8	50.2	50.4	50.4	50.7	50.7	50.9	51.4
≥ 4500		23.0	31.0	36.1	42.4	44.7	47.1	49.3	49.8	50.2	50.4	50.4	50.7	50.7	50.9	51.4
≥ 4000		23.0	31.0	36.1	42.4	44.7	47.1	49.3	49.8	50.2	50.4	50.4	50.7	50.7	50.9	51.4
≥ 3500		23.0	31.0	36.1	42.4	44.7	47.1	49.3	49.8	50.2	50.4	50.4	50.7	50.7	50.9	51.4
≥ 3000		23.0	31.0	36.1	42.4	44.7	47.1	49.3	49.8	50.2	50.4	50.4	50.7	50.7	50.9	51.4
≥ 2500		23.0	31.0	36.1	42.4	44.7	47.1	49.3	49.8	50.2	50.4	50.4	50.7	50.7	50.9	51.4
≥ 2000		23.0	31.0	36.1	42.4	44.7	47.1	49.3	49.8	50.2	50.4	50.4	50.7	50.7	50.9	51.4
≥ 1800		23.0	31.0	36.1	42.4	44.7	47.1	49.3	49.8	50.2	50.4	50.4	50.7	50.7	50.9	51.4
≥ 1500		23.0	31.0	36.1	42.4	44.7	47.1	49.3	49.8	50.2	50.4	50.4	50.7	50.7	50.9	51.4
≥ 1200		23.0	31.0	36.1	42.4	44.7	47.1	49.3	49.8	50.2	50.4	50.4	50.7	50.7	50.9	51.4
≥ 1000		23.0	31.0	36.1	42.4	44.7	47.1	49.3	49.8	50.2	50.4	50.4	50.7	50.7	50.9	51.4
≥ 900		23.0	31.0	36.1	42.4	44.7	47.1	49.3	49.8	50.2	50.4	50.4	50.7	50.7	50.9	51.4
≥ 800		23.0	31.0	36.1	42.4	44.7	47.1	49.3	49.8	50.2	50.4	50.4	50.7	50.7	50.9	51.4
≥ 700		23.0	31.0	36.1	42.4	44.7	47.1	49.3	49.8	50.2	50.4	50.4	50.7	50.7	50.9	51.4
≥ 600		23.0	31.0	36.1	42.4	44.7	47.1	49.3	49.8	50.2	50.4	50.4	50.7	50.7	50.9	51.4
≥ 500		23.0	31.0	36.1	42.4	44.7	47.1	49.3	49.8	50.2	50.4	50.4	50.7	50.7	50.9	51.4
≥ 400		23.0	31.0	36.1	42.4	44.7	47.1	49.3	49.8	50.2	50.4	50.4	50.7	50.7	50.9	51.4
≥ 300		23.0	31.0	36.1	42.4	44.7	47.1	49.3	49.8	50.2	50.4	50.4	50.7	50.7	50.9	51.4
≥ 200		23.0	31.0	36.1	42.4	44.7	47.1	49.3	49.8	50.2	50.4	50.4	50.7	50.7	50.9	51.4
≥ 100		23.0	31.0	36.1	42.4	44.7	47.1	49.3	49.8	50.2	50.4	50.4	50.7	50.7	50.9	51.4
≥ 0		23.0	31.0	36.1	42.4	44.7	47.1	49.3	49.8	50.2	50.4	50.4	50.7	50.7	50.9	51.4

TOTAL NUMBER OF OBSERVATIONS 6687

FEDERAL CLIMATOLOGY SERVICE  
 U.S. ATAC  
 AND WEATHER SERVICE/MAC

# CEILING VERSUS VISIBILITY

78835 MATHER AFB CA

73-81

ALL

STATION

STATION NAME

YEARS

NORTH

ALL

HOURS (L.S.T.)

## PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

CEILING (FEET)	VISIBILITY STATUTE MILES															
	≥10	≥6	≥5	≥4	≥3	≥2½	≥2	≥1½	≥1¼	≥1	¾	¾	¾	¾	≥5/16	≥¼
NO CEILING		65.7	67.5	68.9	70.3	71.7	71.1	71.4	71.5	71.6	71.7	71.7	71.8	71.8	71.8	71.9
≥20000		69.5	71.5	73.1	74.7	75.1	75.5	75.9	76.1	76.1	76.2	76.2	76.3	76.3	76.3	76.5
≥18000		69.8	71.9	73.4	75.0	75.4	75.9	76.3	76.4	76.5	76.6	76.6	76.6	76.7	76.7	76.8
≥16000		69.9	72.0	73.6	75.2	75.6	76.1	76.4	76.6	76.7	76.7	76.7	76.8	76.8	76.9	77.0
≥14000		71.1	73.1	74.7	76.4	76.8	77.3	77.7	77.8	77.9	78.0	78.0	78.1	78.1	78.2	78.3
≥12000		72.5	74.7	76.4	78.1	78.5	79.0	79.4	79.6	79.7	79.8	79.8	79.8	79.9	79.9	80.0
≥10000		74.3	76.6	78.3	80.2	80.6	81.2	81.6	81.7	81.9	82.0	82.0	82.0	82.1	82.1	82.3
≥9000		74.5	76.8	78.6	80.4	80.9	81.4	81.9	82.0	82.1	82.2	82.2	82.3	82.3	82.4	82.5
≥8000		75.9	78.3	80.1	82.0	82.5	83.1	83.5	83.7	83.8	83.9	83.9	84.0	84.0	84.1	84.2
≥7000		76.4	78.8	80.6	82.5	83.0	83.6	84.1	84.2	84.4	84.5	84.5	84.6	84.6	84.7	84.8
≥6000		77.0	79.5	81.4	83.3	83.8	84.4	84.9	85.1	85.2	85.3	85.3	85.4	85.4	85.5	85.6
≥5000		78.2	80.9	82.7	84.7	85.2	85.9	86.4	86.5	86.7	86.7	86.8	86.8	86.9	86.9	87.1
≥4500		79.2	81.8	83.8	85.8	86.4	87.0	87.5	87.6	87.8	87.9	87.9	88.0	88.0	88.1	88.2
≥4000		80.2	82.9	84.9	87.0	87.5	88.2	88.7	88.8	89.0	89.1	89.1	89.2	89.2	89.3	89.4
≥3500		81.9	83.6	85.6	87.8	88.4	89.0	89.6	89.7	89.9	90.0	90.0	90.1	90.1	90.2	90.3
≥3000		82.1	85.0	87.1	89.3	89.9	90.6	91.2	91.3	91.5	91.6	91.6	91.7	91.8	91.8	91.9
≥2500		82.5	85.4	87.5	89.8	90.4	91.1	91.7	91.9	92.0	92.1	92.1	92.2	92.3	92.3	92.5
≥2000		83.0	86.0	88.3	90.6	91.2	92.0	92.6	92.7	92.9	93.0	93.0	93.1	93.2	93.2	93.3
≥1800		83.2	86.2	88.5	90.8	91.5	92.2	92.8	93.0	93.2	93.3	93.3	93.4	93.4	93.5	93.6
≥1500		83.6	86.7	89.0	91.5	92.2	93.0	93.6	93.8	94.0	94.1	94.1	94.2	94.2	94.3	94.4
≥1200		83.9	87.1	89.5	92.1	92.8	93.7	94.3	94.5	94.7	94.8	94.8	94.9	95.0	95.0	95.1
≥1000		84.1	87.3	89.8	92.4	93.2	94.1	94.8	95.0	95.2	95.3	95.3	95.4	95.5	95.5	95.6
≥900		84.2	87.4	89.9	92.6	93.5	94.4	95.1	95.3	95.5	95.6	95.6	95.7	95.8	95.8	96.0
≥800		84.3	87.5	90.0	92.8	93.7	94.6	95.4	95.6	95.8	95.9	95.9	96.0	96.1	96.1	96.3
≥700		84.3	87.6	90.1	93.0	93.9	94.9	95.7	95.9	96.1	96.2	96.2	96.4	96.4	96.5	96.6
≥600		84.4	87.7	90.2	93.2	94.1	95.2	96.0	96.2	96.5	96.6	96.6	96.7	96.8	96.8	97.0
≥500		84.4	87.8	90.3	93.4	94.3	95.5	96.4	96.7	96.9	97.1	97.1	97.2	97.3	97.3	97.5
≥400		84.5	87.8	90.4	93.5	94.5	95.7	96.8	97.1	97.4	97.6	97.6	97.8	97.8	97.9	98.1
≥300		84.5	87.8	90.4	93.5	94.6	95.9	97.1	97.4	97.8	98.0	98.0	98.2	98.3	98.4	98.7
≥200		84.5	87.8	90.4	93.5	94.6	95.9	97.2	97.5	97.9	98.2	98.3	98.5	98.7	98.8	99.2
≥100		84.5	87.8	90.4	93.5	94.6	95.9	97.2	97.5	98.0	98.3	98.3	98.6	98.8	99.1	99.7
≥0		84.5	87.8	90.4	93.5	94.6	95.9	97.2	97.5	98.0	98.3	98.3	98.6	98.8	99.1	100.0

TOTAL NUMBER OF OBSERVATIONS 78825

TOTAL SKY COVER

FOR AIRWAYS STATIONS THE SYMBOLS OF CLEAR, SCATTERED,  
BROKEN, OVERCAST, & OBSCURED WERE USED AS INPUT FOR THE  
TOTAL SKY COVER.

CLEAR WAS CONVERTED TO 0/10

SCATTERED WAS CONVERTED TO 3/10

BROKEN WAS CONVERTED TO 9/10

OVERCAST WAS CONVERTED TO 10/10

OBSCURED WAS CONVERTED TO 10/10

NOTE: PERCENTAGES IN OTHER TENTHS CLASSES SHOULD BE  
DISREGARDED, BECAUSE THEY ARE NOT STATISTICALLY  
SIGNIFICANT.

## SKY COVER

JAN

**MONTH**

MONTH	HOURS (L.S.T.)	PERCENTAGE FREQUENCY OF TENTHS OF TOTAL SKY COVER										MEAN TENTHS OF SKY COVER	TOTAL NO. OF OBS.	
		0	1	2	3	4	5	6	7	8	9			10
JAN	0-02	24.2			13.5						10.6	49.7	6.3	801
	03-05	26.5			3.2						13.0	52.3	6.6	815
	06-08	16.3			13.4						14.3	56.0	7.3	818
	09-11	10.9			16.0						15.0	58.1	7.6	833
	12-14	17.7			16.8						20.4	52.1	7.5	829
	15-17	17.9			18.3						24.0	46.8	7.4	825
	18-20	17.8			19.1						19.1	44.1	6.7	828
	21-23	23.0			17.3						15.5	44.2	6.3	813
TOTALS		17.8			15.3						16.5	50.4	7.0	6562

PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE.

## SKY COVER

724835

MATHER AFB CA

73-81

FEB

STATION

STATION NAME

PERIOD

MONTH

MONTH	HOURS [L.S.T.]	PERCENTAGE FREQUENCY OF TENTHS OF TOTAL SKY COVER										MEAN TENTHS OF SKY COVER	TOTAL NO. OF OBS.	
		0	1	2	3	4	5	6	7	8	9			10
FEB	0-32	21.6			17.8						16.2	37.3	5.7	758
	3-35	24.6			17.1						20.0	38.4	6.1	756
	6-08	11.0			22.0						25.7	41.3	7.1	755
	9-11	9.3			22.9						24.9	43.9	7.3	760
	12-14	6.4			22.4						28.2	42.9	7.5	762
	15-17	7.1			23.3						28.1	41.5	7.4	761
	18-20	15.0			23.6						24.3	37.1	6.6	762
	21-23	24.0			21.1						20.2	34.6	5.9	762
TOTALS		15.6			21.3						23.5	39.6	6.7	6076

**USAFETAC**

**FORM**  
**HM 64**

### 0.9.5 (OLI)

PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE.

## SKY COVER

MAR

MONTH

MONTH	HOURS (L.S.T.)	PERCENTAGE FREQUENCY OF TENTHS OF TOTAL SKY COVER										MEAN TENTHS OF SKY COVER	TOTAL NO. OF OBS.	
		0	1	2	3	4	5	6	7	8	9			10
MAY	0-02	33.6			27.7						15.3	30.5	5.0	837
	3-05	32.8			17.9						14.5	34.8	5.3	836
	6-08	13.9			29.7						17.0	39.3	6.4	834
	9-11	11.9			27.8						24.2	37.2	6.7	836
	12-14	8.8			29.2						24.4	37.6	6.8	837
	15-17	8.4			29.5						27.1	35.0	6.8	837
	18-20	17.4			29.9						22.9	29.7	5.9	837
	21-23	34.1			24.0						15.9	26.0	4.8	837
TOTALS		20.0			26.1						21.2	33.8	6.0	6691

USAFETAC FORM 0-9-5 (OLI) PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE.  
JUL 64

1

## SKY COVER

APR

MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)

MONTH	HOURS (L.S.T.)	PERCENTAGE FREQUENCY OF TENTHS OF TOTAL SKY COVER										MEAN TENTHS OF SKY COVER	TOTAL NO. OF OBS.	
		0	1	2	3	4	5	6	7	8	9			10
JR.	10-12	53.1			17.4						12.8	16.7	3.3	810
	11-05	46.2			22.3						14.3	17.2	3.7	810
	12-08	24.4			32.1						19.7	23.9	5.1	808
	1-11	20.0			28.8						23.0	28.2	5.8	809
	12-14	17.1			27.4						25.9	29.6	6.1	810
	1-17	15.6			31.5						24.5	29.4	6.1	809
	1-20	23.7			32.1						22.8	21.4	5.2	810
	1-23	45.3			22.3						17.7	14.7	3.7	810
TOTALS		3 .7			26.6						20.1	22.6	4.9	6476

USAFETAC FORM 0-9-5 (OLI) JUL 64 PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE.

## SKY COVER

MAY

...  
MONTH

MONTH	HOURS [L.S.T.]	PERCENTAGE FREQUENCY OF TENTHS OF TOTAL SKY COVER										MEAN TENTHS OF SKY COVER	TOTAL NO. OF OBS.	
		0	1	2	3	4	5	6	7	8	9	10		
JY	0-02	54.2			27.9						10.9	7.0	2.4	837
	3-05	47.4			31.7						12.2	8.7	2.9	837
	6-08	34.5			35.8						17.1	12.5	3.9	837
	9-11	31.2			37.9						18.8	12.2	4.0	837
	12-14	25.1			36.6						19.4	17.0	4.6	837
	3-17	21.4			41.6						23.1	14.0	4.7	837
	6-20	24.7			41.5						23.5	10.3	4.4	837
	9-23	5 .9			29.5						14.5	5.1	2.7	837
TOTALS		3 .7			36.1						17.4	10.9	3.7	6696

PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE.



## SKY COVER

JUN

STATION

STATION NAME

PERIOD

MONTH

MONTH	HOURS (L.S.T.)	PERCENTAGE FREQUENCY OF TENTHS OF TOTAL SKY COVER									MEAN TENTHS OF SKY COVER	TOTAL NO. OF OBS.		
		0	1	2	3	4	5	6	7	8			9	10
JUN.	1-12	67.7			17.4						8.4	4.4	1.8	809
	13-25	50.9			27.4						15.7	6.0	2.8	810
	1-28	40.2			31.6						17.2	9.0	3.5	817
	1-11	39.6			31.5						13.7	7.2	3.1	813
	12-14	32.7			45.9						15.3	6.1	3.4	808
	15-17	27.5			45.8						16.4	7.3	3.7	810
	18-20	33.0			43.1						17.3	6.6	3.5	809
	21-23	59.3			27.0						11.5	2.2	2.1	810
TOTALS		43.1			35.6						14.4	6.1	3.0	6476

USAFETAC FORM 0-9.5 (OLI) JUL 64 PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE

## SKY COVER

JUL

**MONTH**

MONTH	HOURS (L.S.T.)	PERCENTAGE FREQUENCY OF TENTHS OF TOTAL SKY COVER								MEAN TENTHS OF SKY COVER	TOTAL NO. OF OBS.			
		0	1	2	3	4	5	6	7			8	9	10
JUL	3-02	74.7			17.1						5.5	2.7	1.1	837
	3-15	65.6			24.1						7.8	2.5	1.7	837
	6-08	55.7			22.4						12.1	2.9	2.3	837
	9-11	56.9			31.3						9.4	2.4	2.0	837
	12-14	51.5			36.4						10.0	3.1	2.3	836
	15-17	46.4			42.1						7.6	3.8	2.3	836
	19-21	52.1			37.6						7.2	3.1	2.1	837
	21-23	74.3			13.9						5.5	2.4	1.1	837
TOTALS		51.6			24.5						8.2	2.8	1.9	6694

## SKY COVER

73-81

AUG

STATION

STATION NAME

PERIOD

MONTH

[illegible]

USAFETAC FORM 0.9.5 (OLI) PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE

## SKY COVER

73-81

SEP

STATION

STATION NAME

PERIOD

MONTH

MONTH	HOURS (L.S.T.)	PERCENTAGE FREQUENCY OF TENTHS OF TOTAL SKY COVER										MEAN TENTHS OF SKY COVER	TOTAL NO. OF OBS.	
		0	1	2	3	4	5	6	7	8	9			10
SEP	9-02	74.2			14.7						6.3	4.8	1.5	809
	1-05	71.9			14.3						9.9	4.9	1.8	810
	5-09	43.7			33.0						14.4	5.9	2.9	810
	8-11	48.3			32.3						13.5	5.9	2.8	810
	11-14	41.1			39.9						13.8	5.2	3.0	809
	1-17	39.1			39.9						16.6	4.4	3.1	809
	6-2	51.2			31.8						15.3	2.7	2.6	809
	1-23	67.2			19.8						7.8	3.2	1.6	809
TOTALS		15.1			22.1						12.2	4.6	2.4	6475

USAFETAC FORM 0-9.3 (OLI) PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE

## SKY COVER

73-81

OCT

STATION

STATION NAME

PERIOD

MONTH

MONTH	HOURS (L.S.T.)	PERCENTAGE FREQUENCY OF TENTHS OF TOTAL SKY COVER										MEAN TENTHS OF SKY COVER	TOTAL NO. OF OBS.	
		0	1	2	3	4	5	6	7	8	9	10		
JUL	1-02	67.7			19.5						11.9	8.9	2.5	832
	3-05	59.8			19.4						10.0	10.7	2.6	829
	6-08	33.9			35.1						19.9	11.1	3.9	831
	9-11	36.8			31.2						20.8	11.2	3.9	828
	12-14	32.6			33.5						22.0	11.9	4.2	832
	15-17	31.7			36.7						22.0	10.4	4.1	829
	18-20	41.7			37.9						16.2	11.2	3.5	832
	21-23	57.2			18.8						12.6	11.4	2.8	834
TOTALS		44.2			28.7						16.9	10.9	3.4	6647

USAFETAC FORM 0-9.5 (OLI) PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE.

## SKY COVER

NOV

MONTH

MONTH	HOURS (L.S.T.)	PERCENTAGE FREQUENCY OF TENTHS OF TOTAL SKY COVER										MEAN TENTHS OF SKY COVER	TOTAL NO. OF OBS.	
		0	1	2	3	4	5	6	7	8	9	10		
NCOV	0-02	37.8			21.3						14.5	27.4	4.7	793
	3-05	36.7			19.8						14.4	29.1	4.8	783
	6-08	15.2			31.9						19.8	33.1	6.1	791
	9-11	14.0			27.5						21.8	36.7	6.5	801
	12-14	13.3			27.6						22.5	36.5	6.5	803
	15-17	11.4			33.7						23.8	32.0	6.4	806
	18-20	25.8			25.7						21.3	27.3	5.4	799
	21-23	34.8			21.9						15.7	27.6	4.8	796
TOTALS		23.5			26.1						19.2	31.2	5.7	6372

## SKY COVER

73-81

DEC

STATION

STATION NAME

PERIOD

MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)

MONTH	HOURS (L.S.T.)	PERCENTAGE FREQUENCY OF TENTHS OF TOTAL SKY COVER										MEAN TENTHS OF SKY COVER	TOTAL NO. OF OBS.	
		0	1	2	3	4	5	6	7	8	9	10		
DIC	4-02	32.5			12.3						9.6	45.6	5.8	797
	3-05	31.7			8.6						9.1	50.6	6.1	789
	6-08	17.8			18.7						13.2	50.3	6.8	797
	7-11	14.6			18.5						16.0	50.7	7.1	812
	12-14	12.6			23.9						15.3	48.2	6.9	817
	15-17	12.8			27.4						18.8	41.0	6.6	814
	18-20	25.5			22.0						14.1	38.4	5.8	809
	21-23	32.6			14.2						11.3	41.9	5.6	795
TOTALS		22.4			19.2						13.4	45.8	6.3	6423

USAFETAC FORM 0-9.5 (OLI) PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE.

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AF WEATHER SERVICE/MAC

# SKY COVER

724835 MATHER AFB CA

75-81

ALL

STATION

STATION NAME

PERIOD

MONTH

## PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

MONTH	HOURS (L.S.T.)	PERCENTAGE FREQUENCY OF TENTHS OF TOTAL SKY COVER											MEAN TENTHS OF SKY COVER	TOTAL NO. OF OBS
		0	1	2	3	4	5	6	7	8	9	10		
JAN	ALL	17.8			15.3						16.5	50.4	7.0	6562
FEB		15.6			21.3						23.5	39.6	6.7	6076
MAR		21.0			26.1						20.2	33.8	6.0	6691
APR		31.7			26.6						20.1	22.6	4.9	6476
MAY		36.7			35.1						17.4	10.9	3.7	6696
JUN		43.9			35.6						14.4	6.1	3.0	6476
JUL		60.6			28.5						8.2	2.8	1.9	6694
AUG		53.4			33.1						9.6	4.0	2.3	6694
SEP		55.1			28.1						12.2	4.6	2.4	6475
OCT		44.2			29.0						16.9	10.9	3.4	6647
NOV		23.5			26.1						19.2	31.2	5.7	6372
DEC		22.5			19.2						13.4	45.8	6.3	6423
TOTALS		35.3			26.8						16.0	21.9	4.4	78282

USAFETAC

FORM 0.9.3 (OL1)  
JAN 64

PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE.



U S AIR FORCE  
ENVIRONMENTAL TECHNICAL  
APPLICATIONS CENTER

C PART E

PSYCHROMETRIC SUMMARIES

In this section are presented various summaries of dry- and wet-bulb temperatures, dew points, and relative humidity. The order and manner of presentations follows:

1. Cumulative percentage frequency of occurrence - derived from daily observations and presented by month and annual for all years combined. These tabulations provide the cumulative percentage frequency to tenths of temperature by 5-degree Fahrenheit increments, plus mean temperature, standard deviations, and total number of observations in three separate tables as follows:
  - a. Daily maximum temperatures
  - b. Daily minimum temperatures
  - c. Daily mean temperatures

NOTE: Beginning in January 1964, daily maximum and minimum temperatures are routinely selected from hourly observations recorded on surface observing forms or from automated data collections for all Air Force operated stations. For those stations observing less than 24 hours per day, and where maximum and minimum temperatures are required but not recorded, these are also selected from hourly data from as early as January 1949 and later. Please refer to notations on summary pages and Station History for further information on reporting practices of individual stations.

2. Extreme values - derived from daily observations with the extreme value selected for each year and month of record available. An annual (ALL MONTHS) value is selected when all months for a year have valid extremes. Means and standard deviations are computed for months and annual when four or more values are present for any column. Two tables of daily extremes are prepared:
  - a. Extreme maximum temperature
  - b. Extreme minimum temperature

NOTE: The following symbols are used in the extreme data blocks:

- (1) \* indicates the extreme was selected from a month with one or more days missing.
- (2) # indicates the extreme was selected from a month in which hourly temperatures were available for less than 24 hours for at least one day in the month.

\* Values for means and standard deviations do not include measurements for incomplete months.

Continued on Reverse

3. Bivariate percentage frequency distribution and computations of dry-bulb versus wet-bulb temperature. This tabulation is derived from hourly observations and is presented by month and annual, all hours and years combined. The following information is provided:

- a. The main body of the summary consists of a bivariate percentage frequency distribution of wet-bulb depression in 17 classes spread horizontally; by 2-degree intervals of dry-bulb temperature spread vertically. Also provided for each of the dry-bulb intervals is the percentage of observations with dry-bulb and wet-bulb temperature combined; and again for dry-bulb, wet-bulb, and dew-point temperatures separately. Total observations for these four items is also provided in two lines at end of each tabulation table, which may be continued on several pages.

NOTE: A percentage frequency in this table of ".0" represents one or more occurrences amounting to less than .05 percent.

- b. Statistical data for the individual elements of relative humidity, dry-bulb, wet-bulb, and dew-point temperatures are shown in the section at the bottom left of the forms. These consist of the sum of squares ( $\Sigma X^2$ ), sums of values ( $\Sigma X$ ), means ( $\bar{X}$ ), and standard deviations ( $\sigma_x$ ). The number of observations used in the computation for each element is also shown.
- c. At the lower right of the form are given the mean number of hours of occurrence for six ranges of dry-bulb, wet-bulb, and dew-point temperatures, and total number of hours possible in the period represented. Mean number of hours is shown to tenths and indicates mean number of hours per year in the annual summary, or mean number of hours per month in the tabulation by month.

NOTE: Wet-bulb temperature usually was not reported prior to 1946. Relative humidity usually was not reported prior to 1949, nor subsequent to June 1958; and was computed by machine methods for observations recorded during these periods. All values of dew-point temperature and relative humidity are with respect to water, unless otherwise indicated.

4. Means and standard deviations - These tabulations are derived from hourly observations and present the mean, standard deviation, and total number of observations for the eight standard 3-hour groups, by month and annual and again at the bottom for all hours combined. Records for all years combined are presented in the following three tables; DRY-BULB TEMPERATURE, WET-BULB TEMPERATURE, and DEW-POINT TEMPERATURE.

5. Cumulative percentage frequency of occurrence of relative humidity - This summary is derived from hourly observations and presents the cumulative percentage frequency of occurrence of relative humidity by increments of 10% classes, plus the mean relative humidity and total number of observations in two tables.

- a. Table 1 is prepared by month and annual, all years combined, with month being the vertical argument.
- b. Table 2 is prepared by month by standard 3-hour groups, with the hour groups being the vertical argument and a separate page for each month. All years are also combined for this summary.

CLIMATOLOGY BRANCH

AFETAC

AIR WEATHER SERVICE/MAC

124935 MATHER AFB CA

STATION

STATION NAME

41-81

YEARS

# DAILY TEMPERATURES

CUMULATIVE PERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM DAILY OBSERVATIONS)

MAXIMUM

TEMP (°F)	JAN.	FEB.	MAR.	APR.	MAY	JUN.	JUL.	AUG.	SEP.	OCT.	NOV.	DEC.	ANNUAL
1						.2	.2	.2	.1				.1
10						1.8	3.2	2.2	.8				.7
20					.7	9.3	16.0	11.9	6.0	.2			3.7
30					4.1	20.7	42.0	33.3	19.2	1.9			10.2
40				.7	14.1	36.2	69.8	60.3	39.4	6.8			19.1
50				5.2	26.7	56.2	87.2	81.3	62.2	18.6	.1		28.4
60			1.2	16.2	45.7	77.3	95.6	92.7	80.2	35.5	1.5		37.4
70		.5	7.5	31.9	63.9	90.3	99.0	98.3	93.1	57.7	7.7		46.1
80	.2	4.2	19.8	51.6	81.1	97.5	99.8	99.8	98.3	79.2	18.7	.4	54.5
90	2.8	17.9	40.9	73.7	94.2	99.4	100.0	99.9	99.7	93.1	40.2	3.0	63.9
100	15.7	47.1	70.1	88.7	98.4	99.9		100.0	100.0	98.6	67.4	17.6	75.3
110	39.7	78.1	91.9	97.4	99.9	100.0				100.0	89.7	46.4	86.8
120	72.2	93.5	98.8	100.0	100.0						98.0	75.1	94.7
130	91.0	99.1	99.9								99.7	91.5	98.4
140	97.8	100.0	100.0								100.0	98.3	99.7
150	99.8											99.6	100.0
160	100.0											100.0	100.0
170													
180													
190													
200													
210													
220													
230													
240													
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990													
1000													
MEAN	52.9	59.0	63.5	70.3	78.4	86.3	92.6	93.9	87.0	76.5	63.1	53.6	72.8
S.D.	1.234	6.018	6.902	8.587	9.338	9.231	7.360	7.341	8.301	8.366	7.201	6.351	15.854
TOTAL OBS.	1240	1102	1209	1170	1209	1200	1240	1240	1205	1271	1228	1271	14585

1  
JUNIAL CLIMATOLOGY BRANCH  
USAFETAC

A WEATHER SERVICE/MAC

835 MATHER AFB CA

41-81

# DAILY TEMPERATURES

CUMULATIVE PERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM DAILY OBSERVATIONS)

MINIMUM

TEMP (°F)	JAN.	FEB.	MAR.	APR.	MAY	JUN.	JUL.	AUG.	SEP.	OCT.	NOV.	DEC.	ANNUAL
75						.2	.3	.2					.1
70						2.2	4.8	2.7	1.5				4.3
65					.9	9.1	18.2	15.1	7.7	.1			4.3
60				.3	6.0	26.6	51.4	45.2	31.7	4.5	.1	.1	13.2
55	1.2	1.1	1.2	5.0	24.6	65.4	91.7	91.3	74.6	25.3	3.3	.9	32.4
50	5.8	10.9	12.3	26.9	68.4	94.9	99.9	100.0	96.7	66.3	19.9	6.3	50.9
45	19.3	29.6	41.7	66.3	93.6	99.6	100.0		99.7	90.6	46.8	20.7	67.5
40	48.1	62.7	78.9	93.1	99.7	100.0			100.0	98.2	75.3	47.0	82.9
35	68.8	89.8	96.2	99.7	100.0					99.8	93.9	76.4	93.7
30	77.6	95.1	98.1	100.0						99.9	98.0	85.1	96.1
25	89.8	98.7	99.8							100.0	99.5	94.6	98.5
20	99.1	100.0	100.0								100.0	99.4	99.9
15	100.0											100.0	100.0
10													
5													
0													
MEAN	38.2	41.6	43.4	46.5	51.6	56.9	60.3	59.6	57.5	51.2	43.9	32.1	42.2
S.D.	6.876	5.793	5.100	4.673	4.811	5.220	4.700	4.292	4.790	5.083	6.004	6.373	9.435
TOTAL OBS.	1240	1102	1279	1170	1209	1200	1240	1240	1205	1271	1228	1271	14585

USAFETAC FORM 0-21-5 (OL 1) PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE

1  
 AIR MAIL CLIMATOLOGY BRANCH

AFETAC

AIR WEATHER SERVICE/4AC

12-835 MATHER AFB CA

STATION

STATION NAME

41-81

YEARS

# DAILY TEMPERATURES

CUMULATIVE PERCENTAGE FREQUENCY OF OCCURRENCE  
 (FROM DAILY OBSERVATIONS)

MEAN

TEMP (°F)	JAN.	FEB.	MAR.	APR.	MAY	JUN.	JUL.	AUG.	SEP.	OCT.	NOV.	DEC.	ANNUAL
0						.4	.8	.2	.3				.2
1					.1	4.6	8.0	5.6	1.9				1.7
2					2.0	15.3	30.1	22.7	12.9	.6			7.0
3				.3	9.1	31.1	63.5	54.3	35.2	5.0			16.7
4			.1	3.6	24.7	59.6	90.4	87.1	66.4	17.7			29.4
5			1.8	16.3	50.9	87.2	99.4	99.0	91.6	44.5	2.4		41.4
6	.9	3.3	12.6	42.2	80.9	98.5	100.0	99.9	98.6	77.2	14.5	.6	52.7
7	1.1	19.6	41.1	73.8	96.6	99.9		100.0	100.0	95.3	43.6	6.5	65.4
8	24.8	57.4	77.8	95.2	99.8	100.0				99.4	77.0	28.7	79.9
9	56.8	89.7	97.8	100.0	100.0					100.0	95.4	64.4	91.9
10	7.3	98.8	99.9								99.9	91.3	98.1
11	8.1	100.0	100.0								100.0	98.9	99.7
12	10.0											99.8	100.0
13												100.0	100.0
14													
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MEAN	45.7	50.5	53.6	58.6	65.2	71.8	76.6	75.4	72.4	64.0	53.7	46.6	61.2
S D	5.543	4.843	5.012	5.815	6.464	6.750	5.399	5.309	5.913	5.933	5.415	5.299	12.212
TOTAL OBS	124	112	120	117	120	120	1240	1240	1205	1271	1223	1271	14585

GLOBAL CLIMATOLOGY BRANCH  
 AFETAC  
 AIR WEATHER SERVICE/MAC

# EXTREME VALUES

MAXIMUM TEMPERATURE

(FROM DAILY OBSERVATIONS)

224835 STATION MATHER AFB CA

41-81

YEARS

WHOLE DEGREES FAHRENHEIT

MONTH	JAN.	FEB.	MAR.	APR.	MAY	JUN.	JUL.	AUG.	SEP.	OCT.	NOV.	DEC.	ALL MONTHS
YEAR													
41									*	89	90	78	66
42	64	67	78	77	94	107	109	101	100	93	76	65	102
43	62	76	75	79	99	101	106	100	103	96	76	71	106
44	65	64	81	80	93	100	101	107	109	88	69	65	102
45	65	67	76	92	91	105	108	101	102	94	79	62	108
46	61					101	103	105	97	88	69	61	
47	65	74	78	90	101	103	104	100	101	96	68	61	104
48	7	68	72	76	86	98	106	98	103	92	75	62	106
49	55	68	69	87	97	103	102	99	103	91	84	61	103
50	66	71	80	91	102	108	109	110	111	94	80	68	111
51	6	70	78	92	100	100	103	104	102	91	79	63	104
52	61	71	82	93	96	98	104	101	102	101*	81	63	104
53	69	71	80	87	87	98	103	100	104	93	77	69	104
54	60	74	74	88	95	104	106	93	96	91	75	64	108
55	58	66	81	79	94	102	102	105	108	89	81	64	108
56	57	65	78	84	96	106	102	100	98	89	78	70	106
57	61	73	79	90	94	106	102	102	104	78	70	63	106
58	63	70	66	84	94	98	101	102	103	96	80	70	103
59	67	73	75	88	91	105	105	103	97	89	75	70	105
60	64	63	81	84	96	108	107	101	99	84	82	62	108
61	62	67	74	86	82	111	108	103	97	96	76	64	111
62	64	61	72	86	88	102	102	101	94	89	78	63	102
63	62	72	71	73	90	99	98	99	102	96	70	53	102
64	61	75	78	87	89	103	102	100	100	95	71	66	103
65	59	71	75	89	93	95	100	98	91	90	75	57	100
66	67	65	84	86	94	105	103	107	102	90	85	64	107
67	65	70	68	65	99	104	103	106	99	90	82	72	106
68	63	73	79	88	93	103	105	105	95	85	73	63	105
69	61	63	79	82	101	97	107	107	103	88	80	68	107
70	67	73	82	85	98	104	107	107	101	97	75	60	107
MEAN													
S.D.													
TOTAL OBS													

NOTES \* (BASED ON LESS THAN FULL MONTHS)

USAF ETAC FORM 0-88-5 (OLA) (AT LEAST ONE DAY LESS THAN 24 OBS)

4) (AT LEAST ONE DAY LESS THAN 24 HRS)

AD-A118 461 AIR FORCE ENVIRONMENTAL TECHNICAL APPLICATIONS CENTER--ETC F/G 4/2  
MATHER AFB, CALIFORNIA. REVISED UNIFORM SUMMARY OF SURFACE WEAT--ETC(1)  
JUN 82  
UNCLASSIFIED USAFETAC/DS-82/033 SBI-AD-E850 192 NI

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\* (AT LEAST ONE DAY LESS THAN 24 OBS)

GLOBAL CLIMATOLOGY BRANCH  
USAF ETAC  
AIR WEATHER SERVICE/MAC

# EXTREME VALUES

MINIMUM TEMPERATURE

(FROM DAILY OBSERVATIONS)

724835 MATHER AFB CA

41-81

STATION

STATION NAME

YEARS

WHOLE DEGREES FAHRENHEIT

MONTH YEAR	JAN	FEB.	MAR	APR.	MAY	JUN.	JUL.	AUG.	SEP.	OCT.	NOV.	DEC	ALL MONTHS	
41									*	51	44	32	33	
42	26	32	35	39	40	49	56	54	52	44	34	30	26	
43	25	30	36	40	40	45	51	52	51	38	32	31	25	
44	29	33	31	35	42	44	53	53	49	48	33	31	29	
45	25	31	32	34	42	41	52	50	46	45	31	29	26	
46	29					47	54	53	51	31	32	29		
47	27	34	34	38	42	48	53	52	46	43	28	29	27	
48	27	26	37	38	40	49	50	54	44	37	30	25	25	
49	22	25	40	41	46	52	53	55	52	36	41	27	22	
50	25	28	32	43	38	45	55	52	45	43	43	35	25	
51	27	31	30	39	44	48	51	54	51	45	35	30	29	
52	27	34	33	41	42	43	55	53	52	45*	27	31	27	
53	34	32	32	35	42	46	55	53	50	44	36	34	32	
54	30	34	33	41	41	47	56	53	50	40	31	30	30	
55	30	30	34	34	45	48	52	53	49	45	35	34	30	
56	32	30	32	39	47	49	54	54	53	36	34	28	28	
57	28	30	37	43	47	53	54	53	54	46	36	32	28	
58	34	38	34	39	47	54	57	60	49	48	30	37	30	
59	30	33	40	43	44	53	56	53	50	46	39	28	28	
60	27	34	38	41	43	53	53	53	49	45	34	29	27	
61	25	34	37	36	42	50	52	52	50	40	29	28	28	
62	22	27	34	41	44	48	53	52	50	47	33	25	22	
63	21	43	33	37	42	51	51	50	53	39	34	31	21	
64	23	29	30	34	38	50	49	53	47	46	29	33	28	
65	28	34	36	40	42	48	51	56	46	43	34	24	24	
66	28	29	29	38	47	45	54	52	50	42	36	30	28	
67	30	34	32	36	40	49	55	57	58	46	35	27	27	
68	21	33	37	39	41	47	52	52	47	42	35	24	21	
69	28	33	35	40	46	56	58	53	51	41	34	30	28	
70	28	36	37	37	44	52	54	54	53	37	36	32	28	
MEAN														
S. D.														
TOTAL OBS														

NOTES \* (BASED ON LESS THAN FULL MONTHS)

USAF ETAC

FORM  
JUL 64

0-88-5 (OLA)

# (AT LEAST ONE DAY LESS THAN 24 OBS)

## PSYCHROMETRIC SUMMARY

**JAN**  
**MONTH**

**MONTH**

HOURS (L. S. T.)

[illegible]

## PSYCHROMETRIC SUMMARY

YEARS

JAN  
MONTH

PAGE 1 0300-0500  
HOURS (L. S. T.)

[illegible]

## PSYCHROMETRIC SUMMARY

**YEARS**

JAN  
MONTH

PAGE 1 0600-0800  
MOUSE (L-S-T)

[illegible]

## PSYCHROMETRIC SUMMARY

YEARS

PAGE 1 0900-1100  
HOURS (L. S. T.)

## PSYCHROMETRIC SUMMARY

YEARS

JAN  
MONTH

PAGE 1 1200-1400  
HOURS (L. S. T.)

## PSYCHROMETRIC SUMMARY

**YEARS**

JAN  
MONTH

PAGE 1 1500-1700  
HOURS (L. S. T.)

Temp. (F)	WET BULB TEMPERATURE DEPRESSION (F)																				TOTAL D.B./W.B.	TOTAL		
	0	1-2	3-4	5-6	7-8	9-10	11-12	13-14	15-16	17-18	19-20	21-22	23-24	25-26	27-28	29-30	≥ 31	Dry Bulb	Wet Bulb	Dew Point				
71									.1									1	1					
69								.1										1	1					
67							.7	.1	.1									8	8					
65		.2				.5	.7	.5	.1									17	17					
63		.1	.1		.1	.6	.7	.1										15	15	2				
61		.1	.4	1.2	1.7	.5	.1											33	33	2				
59	.2	.5	.7	1.1	1.4	1.1	.1											42	42	4				
57	.1	1.3	2.3	2.9	1.7	.1	.5	.1										69	69	12				
55	.2	1.7	2.3	2.1	1.4	.4	.1	.1										69	69	48				
53		3.1	2.4	4.1	.8	1.0	.2	.2										99	99	80				
51	.2	2.5	3.1	3.7	1.3	2.2	.6	.2										112	112	94				
49		4.9	3.4	3.8	2.6	.8	.4											133	133	93				
47		3.7	2.6	2.4	.2	.2	.1											83	83	100				
45		3.8	1.7	1.3	1.3	.1												69	69	101				
43	.2	2.8	2.4	.4														43	48	122				
41		1.9	1.3	.1														28	28	90				
39		.5																4	4	61				
37		.5																4	4	25				
35																				1				
33																								
31																								
29																								
27																								
25																								
23																								
21																								
19																								
17																								
TOTAL	1.1	27.7	22.6	22.2	12.6	7.4	4.6	1.6	.4									835	835	835				

Element (X)	Z <sub>R</sub> <sup>1</sup>	Z <sub>R</sub>	Z	z <sub>s</sub>	No. Obs.	Mean No. of Hours with Temperature						Total
Rel. Hum.	4360694	58722	70.3	16.644	835	≤ 0 F	≤ 32 F	≤ 67 F	≥ 73 F	≥ 80 F	≥ 93 F	
Dry Bulb	2280703	43359	51.9	5.917	835			1.1				93
Wet Bulb	1874437	39324	47.1	5.192	835							93
Dew Point	1503935	34899	41.8	7.372	835		11.9					93



## PSYCHROMETRIC SUMMARY

724835  
STATION

MA THER AFB CA

73-81

JAN  
MONTH

PAGE 1

1800-2000  
HOURS (L. S. T.)

[illegible]

## PSYCHROMETRIC SUMMARY

JAN  
MONTH

PAGE 1 2100-2300  
HOURS (L S T)

[illegible]

## PSYCHROMETRIC SUMMARY

YEARS

JAN  
MONTH

PAGE 1

ALL  
HOURS (L. S. T.)

Temp. (F)	WET BULB TEMPERATURE DEPRESSION (F)																												TOTAL D.B./W.B.	TOTAL			
	0	1-2	3-4	5-6	7-8	9-10	11-12	13-14	15-16	17-18	19-20	21-22	23-24	25-26	27-28	29-30	≥31	Dry Bulb	Wet Bulb	Dew Point													
71																		1	1														
69																		1	1														
67																		15	15														
65																		24	24														
63																		31	31	2													
61																		81	91	10	10												
59																		130	130	22	17												
57																		212	212	47	31												
55																		292	292	144	49												
53																		440	440	292	108												
51																		542	542	415	248												
49																		619	619	537	335												
47																		602	603	622	485												
45																		679	679	629	556												
43																		751	751	780	630												
41																		645	645	642	763												
39																		585	585	790	775												
37																		422	422	603	707												
35																		278	278	375	641												
33																		160	160	260	330												
31																		98	98	158	365												
29																		53	53	95	189												
27																		28	28	38	208												
25																		4	4	32	90												
23																					41												
21																					43												
19																					44												
17																					21												
15																					5												
13																					2												
TOTAL	1.75	1.72	1.7	9.2	4.8	2.2	1.1	.3	.0									6693	6694	6693	6693												

Element (X)	Σx'	Σx	̄x	s <sub>x</sub>	No. Obs.	Mean No. of Hours with Temperature						Total
Rel. Hum.	45748576	545092	81.4	14.230	6693	≤ 0 F	≤ 32 F	≥ 67 F	≥ 73 F	≥ 80 F	≥ 93 F	
Dry Bulb	14394839	306653	45.8	7.201	6694		20.3	1.9				744
Wet Bulb	12726453	298693	43.1	6.400	6693							744
Dew Point	1175410	267828	40.7	7.314	6693		112.1					744

## PSYCHROMETRIC SUMMARY

FEB  
MONTH

PAGE 1 0000-0200  
HOURS (L. S. T.)

Temp. (F)	WET BULB TEMPERATURE DEPRESSION (F)																												TOTAL		TOTAL	
	0	1-2	3-4	5-6	7-8	9-10	11-12	13-14	15-16	17-18	19-20	21-22	23-24	25-26	27-28	29-30	≥ 31	D.B./W.B.	Dry Bulb	Wet Bulb	Dew Point											
1 / 57			.1	.5														5	5													
5 / 55			2.9	1.1	.1													31	31	8												
4 / 53			3.7	1.7	.7	.1												47	47	25	18											
1 / 51		.3	5.3	3.3	.7													72	72	41	24											
5 / 49			8.0	3.8	.3	.4	.3											97	97	68	47											
1 / 47		.7	10.5	1.8	.1													100	100	98	61											
4 / 45		.4	9.1	3.3	.4	.1	.1											102	102	115	98											
4 / 43		.4	11.2	3.3	.1	.1												115	115	92	89											
2 / 41		.8	7.5	3.7	.3	.4												96	96	117	101											
4 / 39		.7	4.9	1.6	.4													57	57	90	112											
3 / 37		.1	1.7	.3														16	16	61	69											
1 / 35		.3	1.4	.4														16	16	25	44											
3 / 33		.9																7	7	13	47											
2 / 31																				8	24											
1 / 29																					13											
1 / 27																					5											
1 / 25																					5											
1 / 23																					1											
2 / 21																					3											
1 / 19	3.5	6.7	1.2	4.7	3.0	1.2	.4												761	761	761											
																		761		761												

Element (X)	Σ X'	Σ X	Σ	Σ <sup>2</sup>	No. Obs.	Mean No. of Hours with Temperature						Total
Rel. Hum.	5459835	64115	84.3	8.742	761	≤ 0 F	≤ 32 F	≤ 67 F	≤ 73 F	≤ 80 F	≤ 93 F	Total
Dry Bulb	1632676	3548	46.1	4.941	761							84
Wet Bulb	1486727	33427	43.9	4.926	761		.9					84
Dew Point	1335098	31564	41.5	5.840	761		5.6					84



## PSYCHROMETRIC SUMMARY

YEARS

FEB  
MONTH

PAGE 1 0600-0800  
HOURS (L. S. T.)

Temp. (F)	WET BULB TEMPERATURE DEPRESSION (F)																				TOTAL		TOTAL		
	0	1-2	3-4	5-6	7-8	9-10	11-12	13-14	15-16	17-18	19-20	21-22	23-24	25-26	27-28	29-30	≥ 31	D.B./W.B.	Dry Bulb	Wet Bulb	Dew Point				
5 / 55		1.4	1.3	.1														22	22	1					
4 / 53		2.4	2.2	.4														36	36	13	7				
2 / 51	.1	3.8	2.4															48	48	42	17				
5 / 49		7.5	.9	.3														66	66	39	39				
1 / 47	1.8	9.3	2.6	.1	.1													104	104	100	68				
4 / 45	2.1	8.8	2.5	1.1														109	109	97	76				
4 / 43	.1	9.4	3.4	.3														100	100	92	83				
2 / 41	1.2	6.7	1.8	.3														76	76	100	85				
4 / 39	.3	8.3	1.7	.4														79	79	86	81				
7 / 37	.8	5.8	1.1	.3														60	60	74	89				
1 / 35	1.2	3.7	.1															33	33	60	76				
3 / 33		1.8	.4															17	17	32	59				
2 / 31		1.2																9	9	18	41				
1 / 29																				5	19				
1 / 27																					9				
1 / 25																					7				
1 / 23																					3				
TOTAL		5.68	9.2	1.3	3.2	.1													759	759	759				

Element (X)	ΣX'	ΣX	X̄	s <sub>x</sub>	No. Obs.	Mean No. of Hours with Temperature						
Rel. Hum.	5634539	65789	85.8	8.342	759	≤ 0 F	≤ 32 F	≤ 67 F	≤ 73 F	≤ 80 F	≤ 93 F	Total
Dry Bulb	1516149	33671	44.4	5.439	759		1.0					84
Wet Bulb	1391781	32247	42.5	5.354	759		2.5					84
Dew Point	1260899	30591	40.3	6.072	759		8.7					84

## PSYCHROMETRIC SUMMARY

YEARS

PAGE 1 0900-1100  
HOURS (L. S. T.)

[illegible]

## PSYCHROMETRIC SUMMARY

     FEE  
MONTH

PAGE 1 1200-1400  
HOURS (L, S, T.)

[illegible]





## PSYCHROMETRIC SUMMARY

YEARS

FEB  
MONTH

1800-2000  
HOURS (L. S. T.)

[illegible]

## PSYCHROMETRIC SUMMARY

73-81

YEARS

FEB  
MONTH

PAGE 1 2100-2300  
HOURS (L. S. T.)

[illegible]

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

# PSYCHROMETRIC SUMMARY

724835 STATION MATHER AFB CA 73-81 YEARS FEB MONTH  
PAGE 1 ALL HOURS (L. S. T.)

Temp. (F)	WET BULB TEMPERATURE DEPRESSION (F)																					TOTAL D.B./W.B.	TOTAL		
	0	1-2	3-4	5-6	7-8	9-10	11-12	13-14	15-16	17-18	19-20	21-22	23-24	25-26	27-28	29-30	≥ 31	Dry Bulb	Wet Bulb	Dew Point					
6 / 75										.0								2							
4 / 73										.1								7							
1 / 71							.0	.0	.1	.1	.0							23							
1 / 69							.1	.0	.1	.1	.0							17							
6 / 67			.2	.0	.1	.3	.3	.1	.0									56							
6 / 65			.3	.0	.4	.4	.3	.1										77							
4 / 63		.0	.0	.2	.3	.7	.5	.2	.0									125			2				
1 / 61		.1	.2	.4	1.1	.5	.3	.1	.0									160			13				
1 / 59	.1	.5	1.0	1.3	.7	.3	.2											247			27				
1 / 57	.5	1.3	1.6	1.8	.8	.3	.2											398			119				
5 / 55	2.7	2.5	2.0	1.5	.8	.3												550			194				
4 / 53	2.7	3.6	2.4	1.1	.3	.1	.2											625			453				
2 / 51	.3	3.9	4.5	1.4	.6	.3												674			652				
5 / 49	.2	5.9	3.3	1.1	.5	.1												672			825				
1 / 47	.7	6.7	2.3	1.1	.4	.0												639			990				
4 / 45	.5	5.0	2.4	.6	.1	.0												526			776				
4 / 43	.2	4.9	1.8	.3	.1													440			577				
2 / 41	.3	3.7	1.2	.2	.0													333			540				
4 / 39	.2	2.8	.9	.1	.1													252			394				
3 / 37	.2	1.6	.4	.1														132			242				
2 / 35	.3	.9	.1															82			162				
3 / 33	.5	.1																38			71				
2 / 31	.1	.2																16			45				
1 / 29	.0																	1			10				
1 / 27																									
1 / 25																									
1 / 23																									
2 / 21																									
1 / 19																									
TOTAL	2.9	40.9	25.4	12.5	9.2	5.1	2.5	1.0	.3	.1								6092			6092				
																						6092		6092	

FORM 0-26-5 (OLA) REVISED PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE

USAFETAC

## PSYCHROMETRIC SUMMARY

PAGE 1 0000-0200  
HOURS (L. S. T.)

[illegible]

## PSYCHROMETRIC SUMMARY

724835  
STATION

MATHER AFB CA

73-61

MAR

PAGE 1 0300-0500  
HOURS (L. S. T.)

[illegible]

## PSYCHROMETRIC SUMMARY

72-835	MATHER AFB CA
STATION	STATION NAME

73-81

YEARS

MAR  
MONTH

PAGE 1 0600-0800  
HOURS (L, S, T.)

[illegible]

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

# PSYCHROMETRIC SUMMARY

724835 MATHER AFB CA

73-81

YEARS

MAR  
MONTH

PAGE 1 0900-1100  
HOURS (L. S. T.)

Temp. (F)	WET BULB TEMPERATURE DEPRESSION (F)																												TOTAL	TOTAL		
	0	1-2	3-4	5-6	7-8	9-10	11-12	13-14	15-16	17-18	19-20	21-22	23-24	25-26	27-28	29-30	≥ 31	D.B./W.B.	Dry Bulb	Wet Bulb	Dew Point											
71							.1		.1									2		2												
69						.1												1		1												
67						.2	.2	.1										5		5												
65				.7	.2	.6	.2	.1	.1	.1								18		18												
63		.2		.7	1.3	.6	.4	.1	.1									29		29												
61			.6	1.2	2.7	.5	.7											48		48	4	1										
59		.2	1.7	3.2	2.3	1.0	.6	.7										81		81	8	1										
57		.7	3.5	3.7	2.3	.7	1.3	.6	.1									108		108	25	4										
55	.2	2.7	3.5	4.3	1.8	1.3	.7	.2	.1									125		125	63	8										
53		2.5	5.5	4.9	1.8	.8	.5	.1										133		133	112	41										
51		.8	5.7	3.3	2.4	.5	.5											111		111	115	62										
49		2.0	3.1	1.9	1.4	.1	.2											74		74	122	75										
47		2.7	1.8	1.7	.4													49		49	134	104										
45		1.7	1.4	.4	.2													30		30	112	117										
43	.1	.5	.7	.4														14		14	67	98										
41	.1	.5	.1															6		6	50	84										
39	.1	.2																3		3	21	62										
37																				4	46											
35																					38											
33																						31										
31																						22										
29																						18										
27																						10										
25																						7										
23																						2										
21																						3										
19																						2										
17																						1										
TOTAL	.6	14.2	27.6	26.4	16.9	6.5	5.5	2.0	.6	.1								837		837		837										
Element (X)	Σ x'		Σ x		Σ		Σ		Σ		Σ		Σ		Σ		Σ		Σ		Σ											
Rel. Num.	4026484		56654		67.7		15.145		837		≤ 0 F		≤ 32 F		≥ 67 F		≥ 73 F		≥ 80 F		≥ 93 F											
Dry Bulb	2513290		45658		54.5		5.207		837						.9						93											
Wet Bulb	2031450		41056		49.1		4.588		837												93											
Dew Point	1613507		36301		43.4		6.841		837				7.2								93											

USAFETAC FORM 44 0-26-5 (QLA) REVISOR PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE



## PSYCHROMETRIC SUMMARY

724835	MATHER AFB CA
STATION	STATION NAME

73-61

YEARS

MAR  
MONTH

PAGE 1 1200-1400  
HOURS 11:55-1:11

Temp. (F)	WET BULB TEMPERATURE DEPRESSION (F)																															TOTAL		TOTAL		
	0	1-2	3-4	5-6	7-8	9-10	11-12	13-14	15-16	17-18	19-20	21-22	23-24	25-26	27-28	29-30	≥ 31	D.B./W.B.	Dry Bulb	Wet Bulb	Dew Point															
1 / 79											.2							2	2																	
7 / 77									.1									1	1																	
15 / 75								.1	.1	.1								3	3																	
4 / 73							.1	.2	.5	.2		.1						10	10																	
1 / 71						.6	.4	.7			.1	.1						16	16																	
7 / 69					.6	1.1	1.4	.4	.2		.2							33	33																	
1 / 67				.2	.2	1.2	1.7	1.1	.5	.6								51	51																	
6 / 65		.2		1.1	1.2	2.4	1.7	1.1	.5	.2								69	69																	
4 / 63		.1	.1	1.3	2.3	3.2	1.8	.8	.8	.2								83	83	5	2															
2 / 61		.1	.8	1.9	2.6	2.5	2.2	2.9	1.1	.4								121	121	20																
7 / 59		.6	1.2	3.2	2.3	3.0	1.3	1.8	.4	.2								117	117	36	4															
1 / 57		.8	2.7	4.9	3.3	1.4	1.8	.7	.2									131	131	74	7															
5 / 55		.4	2.7	3.6	2.2	1.4	.2	.1										83	83	97	24															
4 / 53		.7	1.2	1.7	1.1	1.3												50	50	136	42															
2 / 51		.2	1.3	.8	1.1	.1												30	30	130	61															
5 / 49		.6	.5	.4	.4													15	15	125	75															
1 / 47			.6	.1														6	6	94	102															
4 / 45		.4	.6															8	8	74	112															
4 / 43			.2															2	2	31	81															
2 / 41		.2																2	2	10	67															
4 / 39	.1	.4																4	4	4	43															
3 / 37																				1	51															
1 / 35																					48															
3 / 33																					28															
2 / 31																					36															
1 / 29																					13															
1 / 27																					15															
1 / 25																					11															
2 / 23																					4															
2 / 21																					5															
1 / 19																					5															
1 / 17																					1															
TOTAL	.1	4.8	11.4	19.1	17.4	18.3	11.7	9.9	4.4	2.0	.6	.2						837	837																	

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

# PSYCHROMETRIC SUMMARY

724835 MATHER AFB CA

73-81

MAR  
MONTH

PAGE 1 1500-1700  
HOURS (L. S. T.)

Temp. (F)	WET BULB TEMPERATURE DEPRESSION (F)																					TOTAL	TOTAL			
	0	1-2	3-4	5-6	7-8	9-10	11-12	13-14	15-16	17-18	19-20	21-22	23-24	25-26	27-28	29-30	≥ 31	D.B./W.B.	Dry Bulb	Wet Bulb	Dew Point					
77												.1	.1					2				2				
77												.1	.1					2				2				
75								.1	.2	.4	.1	.1						8				8				
73						.1	.5	.1	.6	.6	.4							19				19				
71					.4	.8	.6	.8	.5	.5								30				30				
69				.2	.7	1.2	1.4	.7	.8	.6								48				48				
67				.5	.6	1.2	1.4	1.7	1.7	1.0	.1							68				68				
65				.2	1.2	1.3	2.6	.8	1.3	.7								69				69				
63			.4	.8	1.1	2.2	1.4	1.4	1.0	.1								69			10					
61			.1	1.7	3.6	2.5	1.6	3.2	1.7	.5								124			24					
59		.7	1.4	2.7	2.2	2.0	1.3	1.4	1.2	.6								114			38	5				
57		.6	3.0	2.6	3.1	1.4	1.6	1.4	.6									119			66	14				
55		.7	1.7	1.8	1.8	.7	.4											59			96	23				
53		.8	1.0	.8	1.7	1.0	.1											37			152	37				
51		.6	1.4	1.1	.6		.1											32			113	71				
49		1.1	.1	.5	.1													14			117	56				
47		.5	.6	.1														10			96	82				
45			.4	.1														4			63	98				
43		.4																3			45	79				
41																					10	61				
39	.4																	3			4	58				
37	.4																	3			3	50				
35																						42				
33																						43				
31																						34				
29																						21				
27																						20				
25																						16				
23																						10				
21																						7				
19																						6				
17																						3				
15																						1				
Element (X)	Σ X <sup>2</sup>		Σ X		X		n		No. Obs.		Mean No. of Hours with Temperature						Total									
Rel. Hum.											≤ 0 F	≤ 32 F	≤ 67 F	≤ 73 F	≤ 80 F	≤ 93 F										
Dry Bulb																										
Wet Bulb																										
Dew Point																										

FORM 0-26-5 (OL A) REVISOR PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE

USAFETAC

## PSYCHROMETRIC SUMMARY

73-81

YEARS

MAR  
MONTH

PAGE 2      1500-1700  
HOURS (L. S. T.)

Temp. (F)	WET BULB TEMPERATURE DEPRESSION (F)																				TOTAL	TOTAL		
	0	1-2	3-4	5-6	7-8	9-10	11-12	13-14	15-16	17-18	19-20	21-22	23-24	25-26	27-28	29-30	= 31	D.B./W.B.	Dry Bulb	Wet Bulb	Dew Point			
1 TALL	.7	5.31	10.13	015.0	14.51	13.01	11.8	9.6	4.9	.8	.4							837	837	837	837			

**USAFETAC**  
FORM  
NA 44  
0-26-5 (OL A)  
REVISED PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

# PSYCHROMETRIC SUMMARY

724835 STATION MATHER AFB CA 73-81 YEARS MAR MONTH  
PAGE 1 1800-2000 HOURS (L. S. T.)

Temp. (F)	WET BULB TEMPERATURE DEPRESSION (F)																				TOTAL		TOTAL	
	0	1-2	3-4	5-6	7-8	9-10	11-12	13-14	15-16	17-18	19-20	21-22	23-24	25-26	27-28	29-30	≥ 31	D.B./W.B.	Dry Bulb	Wet Bulb	Dew Point			
1 / 75											.1							1	1					
4 / 73																		1	1					
1 / 71						.1		.1	.1	.1								4	4					
1 / 69					.4	.1		.2	.6									11	11					
6 / 67				.4	.5	.4	.6	.2	.1									18	19					
6 / 65				1.3	.6	.5	.8	.6	.4	.1								36	36					
4 / 63			.5	.7	1.1	.7	.5	.7	.2									37	37	1				
1 / 61			1.6	1.4	1.1	1.8	.7	1.0	.5									67	67	9				
1 / 59		.2	2.0	1.6	2.2	.6	1.0	1.4	.4									78	78	24	1			
1 / 57	.2	1.0	2.5	3.1	3.5	1.6	.8	1.1	.4									118	118	41	12			
5 / 55		2.0	3.1	4.3	1.9	2.0	1.3	1.1	.1									133	133	58	29			
4 / 53		2.4	3.2	3.5	1.6	1.4	.8	.2										110	110	92	37			
2 / 51		2.2	4.5	3.0	1.7	.5	.6											104	104	121	68			
5 / 49		1.6	2.0	.7	.7	.2	.2											46	46	128	61			
1 / 47	.1	1.7	2.4	1.3	.2													48	48	130	65			
4 / 45		.4	.6															8	8	110	109			
4 / 43			.5	.1														5	5	62	90			
2 / 41		.6	.2															7	7	34	88			
1 / 39		.2																2	2	22	47			
3 / 37	.4																	3	3	5	58			
1 / 35																					34			
3 / 33																					33			
2 / 31																					37			
1 / 29																					15			
2 / 27																					15			
1 / 25																					15			
2 / 23																					12			
2 / 21																					5			
1 / 19																					2			
1 / 17																					3			
1 / 15																					1			
TOTAL		.712	.223	.221	.415	.399	7.4	6.8	2.7	.2	.1								837		837			
																		837		837				
Element (X)	Z <sub>X</sub> <sup>1</sup>	Z <sub>X</sub>	X	σ <sub>X</sub>	No. Obs.	Mean No. of Hours with Temperature						Total												
Rel. Hum.	3653711	53193	63.6	18.077	837	≥ 0 F	≥ 32 F	≥ 67 F	≥ 73 F	≥ 80 F	≥ 93 F	Total												
Dry Bulb	2654843	46895	56.0	5.729	837			3.9	.2			93												
Wet Bulb	2073214	41456	49.5	4.882	837							93												
Dew Point	1578244	35712	42.7	8.076	837		11.7					93												

USAFETAC FORM 0-26-5 (OL A) REVISOR PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE

## PSYCHROMETRIC SUMMARY

724835                      MATHER AFB CA  
STATION

73-81

MAR  
MONTH

PAGE 1 2100-2300

2100-2300  
HOURS 11 5 31

Temp. (F)	WET BULB TEMPERATURE DEPRESSION (F)																												TOTAL		TOTAL	
	0	1-2	3-4	5-6	7-8	9-10	11-12	13-14	15-16	17-18	19-20	21-22	23-24	25-26	27-28	29-30	≥ 31	D.B./W.B.	Dry Bulb	Wet Bulb	Dew Point											
4 / 63			.1	.1														2	2													
4 / 61			1.0	.7			.1											15	15													
5 / 59		.4	1.4	1.2	.4	.1	.2	.1										32	32	1												
5 / 57		1.9	1.7	.8	.6	.2	.1											45	45	19	2											
5 / 55	.1	2.0	4.4	2.2	.5	.6	.7	.4										91	91	43	17											
4 / 53	.1	3.9	4.5	2.1	.8	.8	.2											105	105	43	35											
2 / 51		2.9	7.2	2.1	1.7	1.6	.5	.2										134	134	86	45											
5 / 49	.1	5.0	8.8	2.2	1.3	1.1	.4	.1										159	159	93	70											
6 / 47	.2	5.5	4.1	2.2	.8	.4	.2											112	112	147	77											
4 / 45		2.6	3.5	1.2	.5	.4												68	68	139	103											
4 / 43		2.4	1.8	.7														41	41	100	109											
2 / 41	.1	1.2	.7															17	17	79	92											
4 / 39		.4	1.1															12	12	51	70											
2 / 37	.4	.1																4	4	26	48											
2 / 35																				10	46											
3 / 33																					29											
2 / 31																					31											
2 / 29																					21											
2 / 27																					12											
2 / 25																					10											
2 / 23																					4											
2 / 21																					8											
2 / 19																					2											
2 / 17																					1											
2 / 15																					3											
TOTAL	1.1	28.3	40.3	15.3	6.6	5.1	2.5	.8											837		837											
																			837		837											

## PSYCHROMETRIC SUMMARY

724835      MATHER AFB CA  
STATION

73-81

MAE  
MONTH

PAGE 1

**- ALL**

**HOURS (L. S. T.)**

[illegible]

## PSYCHROMETRIC SUMMARY

724835  
STATION

MATHER AFB CA

73-81

MAR  
MONTH

PAGE 2

ALL

ALL  
HOURS (L. S. T.)

[illegible]

## PSYCHROMETRIC SUMMARY

73-81

YEARS

APR  
MONTH

PAGE 1 0000-0200  
HOURS (L. S. T.)

[illegible]



## PSYCHROMETRIC SUMMARY

124835      MATHER AFB CA  
STATION      STATION NAME

73-81

YEARS

APP

PAGE 1 0300-0500  
HOURS (L. S. T.)

[illegible]

## PSYCHROMETRIC SUMMARY

APR  
MONTH

PAGE 1 0600-0800  
HOURS (L. S. T.)

[illegible]

## PSYCHROMETRIC SUMMARY

724835      MATHER AFB CA  
STATION

73-81

APR  
MONTH

PAGE 1 0900-1100  
HOURS (L. S. T.)

Temp. (F)	WET BULB TEMPERATURE DEPRESSION (F)																														TOTAL D.B./W.B.	TOTAL		
	0	1-2	3-4	5-6	7-8	9-10	11-12	13-14	15-16	17-18	19-20	21-22	23-24	25-26	27-28	29-30	>31	Dry Bulb	Wet Bulb	Dew Point														
67/85									.1									1	1															
47/83									.1									1	1															
27/81								.1										1	1															
77/79							.1											1	1															
77/77						.1												1	1															
67/75					.2		.1	.5	.2	.1		.1	.1					12	12															
47/73					.1	.1	.1	.5		.2	.1	.1	.1					12	12															
27/71					.1	.2	.7	1.1	.1	.4	.4							25	25															
77/69					.2	.7	1.6	.6	.5	.5	.5							38	38	1														
67/67					.6	1.5	1.9	1.2	.5	1.0								54	54	6														
67/65				.5	1.5	2.3	2.1	.7	.6	.6								68	68	1														
47/63				1.1	2.1	3.0	.7	.5	.7	.2								68	68	5	1													
77/61		.1	.5	2.5	2.2	2.8	1.9	.9	.9									95	95	12	2													
77/59		.9	3.3	3.6	2.7	.9	1.2	.1										103	103	34	6													
77/57		.2	1.4	4.2	3.6	2.2	.6	.1										100	100	64	5													
57/55		.2	1.9	3.3	3.3	1.1	.1	.1										82	82	97	6													
47/53		.2	2.7	3.2	2.7	.5	.2											72	72	119	36													
27/51		1.1	1.9	.9	1.1	.4	.1											44	44	147	50													
77/49		.5	1.1	.2	.7													21	21	140	85													
77/47		.1	.4	.1														5	5	97	104													
47/45		.2	.2															4	4	55	125													
47/43		.2																2	2	25	81													
27/41																				7	80													
47/39																					67													
77/37																					41													
77/35																					35													
37/33																					16													
27/31																					28													
77/29																					14													
77/27																					13													
77/25																					13													
27/23																					1													
27/21																					1													

Element (
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## PSYCHROMETRIC SUMMARY

724835      MAINTENANCE AFB CA  
STATION      STATION NAME

73-81

YEARS

APR  
MONTH

PAGE 2 0900-1100  
HOURS (L. S. T.)

[illegible]

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

# PSYCHROMETRIC SUMMARY

724835  
STATION

NATHER AFB CA  
STATION NAME

73-81  
YEARS

APR  
MONTH

PAGE 1 1200-1400  
HOURS (L. S. T.)

Temp. (F)	WET BULB TEMPERATURE DEPRESSION (F)																			TOTAL	TOTAL		
	0	1-2	3-4	5-6	7-8	9-10	11-12	13-14	15-16	17-18	19-20	21-22	23-24	25-26	27-28	29-30	≥ 31	D.B./W.B.	Dry Bulb	Wet Bulb	Dew Point		
/ 89										.2	.1	.1						2	2				
8/ 87										.1	.2		.1					2	2				
6/ 85									.1	.1	.2		.1					5	5				
4/ 83									.1	.1	.1	.2			.1			6	6				
/ 81							.1		.2	.4	.4	.2	.5					15	15				
/ 79							.2	.1	.2	.6	.4	.1	.2	.4				19	19				
7/ 77							.4	.6	1.7	.2	.6	1.1	.5					42	42				
6/ 75						.1	.2	1.1	1.7	.9	.7	.9	.6					51	51				
4/ 73						.2	.9	1.6	2.6	.6	.5	.9	.1					60	60				
/ 71					.1	1.0	2.1	2.7	1.1	.5	.9	.1						69	69	1			
/ 69						1.7	2.8	2.0	1.9	.5	.6							77	77	7			
/ 67					.7	1.9	2.6	1.7	1.2	.4	.2							71	71	4			
6/ 65				.2	1.4	3.7	2.2	1.2	1.0	.5	.2							81	81	8			
4/ 63				.2	1.5	2.6	1.6	1.4	1.1	.4								71	71	19	3		
/ 61			.1	.6	2.2	1.6	1.7	.9	.6									63	63	51	1		
/ 59		.2	.9	.6	1.4	3.1	1.1	.1	.2									62	62	96	7		
/ 57		.2	.6	.5	1.7	.7	.4											34	34	107	3		
5/ 55		.1	.9	1.2	1.4	.4	.4											32	32	117	27		
4/ 53		.5	.9	.2	.5	.2												19	19	119	45		
/ 51		.1	.0	.2	.4	.1												14	14	108	41		
5/ 49	.1	1.1																10	10	93	82		
/ 47		.4	.1	.1														5	5	56	111		
4/ 45																				16	99		
4/ 43																				8	71		
2/ 41																					70		
4/ 39																					52		
3/ 37																					46		
2/ 35																					33		
3/ 33																					20		
2/ 31																					41		
1/ 29																					19		
2/ 27																					12		
/ 25																					11		
2/ 23																					12		
Element (X)	Σ X <sup>2</sup>		Σ X		Σ		Σ		Σ		Σ		Σ		Σ		Σ		Σ		Σ		
Rel. Hum.																							
Dry Bulb																							
Wet Bulb																							
Dew Point																							

USAFETAC FORM 0-26-5 (O.L.A.) REVISED PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE

## PSYCHROMETRIC SUMMARY

73-61

YEARS

APR  
MONTH

PAGE 2 1200-1400  
HOURS (L. S. T.)

[illegible]

**USAFETAC** FORM 0-26-5 (OL A) REVISED PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE  
S.E. 44

## PSYCHROMETRIC SUMMARY

YEARS

APR  
MONTH

PAGE 1 1500-1700  
HOURS (L. S. T.)

Temp. (F)	WET BULB TEMPERATURE DEPRESSION (F)																												TOTAL D.B./W.B.	TOTAL		
	0	1-2	3-4	5-6	7-8	9-10	11-12	13-14	15-16	17-18	19-20	21-22	23-24	25-26	27-28	29-30	≥ 31	Dry Bulb	Wet Bulb	Dew Point												
✓ 93												.1						1	1													
/ 91												.1						2	2													
/ 89												.2		.1				3	3													
✓ 87											.2	.4						5	5													
✓ 85											.1			.1		.2		4	4													
✓ 83								.1			.1		.4	.5	.7	.5		19	19													
/ 81								.2	.1	.5	.4	.6	.1	.5	.4			23	23													
/ 79									1.5	.5	1.0	.6	.2	1.0				39	39													
7 / 77								.2	.2	.9	1.2	1.2	1.4	.5	.2			49	49													
6 / 75								.2	1.7	1.3	1.4	.6	1.5	.7				58	58													
4 / 73			.1			.5	.7	1.5	3.3	.6	.1	.9	.1					64	64													
/ 71			.1			.2	1.7	1.9	2.6	1.4	.7							70	70													
/ 69						.7	.9	2.6	1.6	1.2	.9							64	64	8												
5 / 67					.2	1.5	2.6	2.7	2.1	.5								72	72	10												
6 / 65				.1	.1	1.6	1.6	.7	1.6	1.5								59	59	4												
4 / 63					.5	2.1	1.6	1.6	1.6	.2								66	66	29												
/ 61			.1	1.1	1.7	1.9	1.5	.6	.2									57	57	47												
/ 59		.2	.6	.7	.1	1.4	.6	.7										36	36	77												
/ 57		.1	1.2	.4	1.7	1.7	.5											41	41	116												
5 / 55		.2	.9	.5	.1	1.7	.2											24	24	130												
4 / 53		.6	1.4	.5	.1													21	21	125												
7 / 51		.7	1.7	.2	.8													20	20	85												
5 / 49		.4	.5	.1														8	8	97												
/ 47		.1																1	1	46												
11 / 45		.1																1	1	28												
4 / 43		.1																1	1	4												
2 / 41		.1																1	1	1												
11 / 39																																
5 / 37																																
/ 35																																
3 / 33																																
/ 31																																
/ 29																																
/ 27																																
Element (X)	Σ X <sup>2</sup>	Σ X	X̄	s <sub>x</sub>	No. Obs.	Mean No. of Hours with Temperature																										

## PSYCHROMETRIC SUMMARY

73-61

YEARS

APR  
MONTH

PAGE ? 1500-1700  
HOURS (L. S. T.)

[illegible]



GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

# PSYCHROMETRIC SUMMARY

724835 MATHER AFB CA STATION NAME

73-81 YEARS

APR MONTH

PAGE 1 1800-2000 HOURS (L. S. T.)

Temp. (F)	WET BULB TEMPERATURE DEPRESSION (F)																					TOTAL D.B./W.B.	TOTAL	
	0	1-2	3-4	5-6	7-8	9-10	11-12	13-14	15-16	17-18	19-20	21-22	23-24	25-26	27-28	29-30	≥ 31	Dry Bulb	Wet Bulb	Dew Point				
67 / 45											.1	.1						2	2					
67 / 43										.1	.1			.1				3	3					
67 / 41										.1	.1	.1	.1	.2				6	6					
67 / 39										.1	.1	.1	.1					5	5					
72 / 77						.1	.1	.2		.1	.4	.1	.4	.2				14	14					
67 / 75						.1	.1	.7	.6	.6		.2	.2					22	22					
47 / 75						.1	.6	.6	.6	.2	.4	.5	.4					31	31					
67 / 71						.5	.7	.9	.6	.4	.5	.1	.1					34	34					
67 / 69						.7	1.7	.6	1.0	.9	.7	.4	.1					46	46	2				
67 / 67				.2	1.1	1.1	2.2	2.2	.6	.4	.5							66	66	4				
67 / 65			.1			1.9	2.6	1.0	1.0	.2								62	62	5				
47 / 67			.1	.5	1.7	2.5	2.7	.7	.2	.2								65	65	11				
67 / 61			.4	1.5	3.1	1.6	1.6	1.2	.6									80	80	23				
67 / 59			.2	.1	3.5	2.3	1.9	1.7	.5	.5								91	81	59				
67 / 57		.1	1.4	3.2	2.5	1.4	.7	.4										78	78	53				
57 / 55		.2	2.3	3.3	2.2	.7												72	72	95				
47 / 55		.9	1.0	3.2	.5	.5	.4											59	59	136				
67 / 51		.9	1.2	1.6	.7													36	36	129				
67 / 49		.6	2.1	.7	.1													29	29	118				
67 / 47		.6	.6															10	10	91				
67 / 45		.7	.2															8	8	59				
47 / 43		.1																1	1	25				
27 / 41																				1				
67 / 39																								
37 / 37																								
67 / 35																								
37 / 33																								
67 / 31																								
67 / 29																								
67 / 27																								
67 / 25																								
67 / 23																								
27 / 21																								
67 / 19																								
Element (X)	Σ X <sup>2</sup>		Σ X		X̄		σ <sub>x</sub>		No. Obs.		Mean No. of Hours with Temperature						Total							
Rel. Hum.											≤ 0 F	≤ 32 F	≥ 67 F	≥ 73 F	≥ 80 F	≥ 93 F								
Dry Bulb																								
Wet Bulb																								
Dew Point																								

USAFETAC FORM 0-26-5 (O.L.A.) REVISED PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE

## PSYCHROMETRIC SUMMARY

YEARS

APR  
MONTH

PAGE 2 1800-2000  
HOURS (L, S, T)

Temp. (F)	WET BULB TEMPERATURE DEPRESSION (F)																		TOTAL	TOTAL		
	0	1-2	3-4	5-6	7-8	9-10	11-12	13-14	15-16	17-18	19-20	21-22	23-24	25-26	27-28	29-30	= 31	D.B./W.B.	Dry Bulb	Wet Bulb	Dew Point	
1 - 11 L		4.4	11.1	17.8	19.7	14.2	13.2	9.5	6.0	3.5	2.3	1.4	1.4	.5					81.0	81.0	81.0	

## PSYCHROMETRIC SUMMARY

APR

**MONTH**

2100-2300  
NOV 11 1964

[illegible]

## PSYCHROMETRIC SUMMARY

72-835  
STATION

MATHER AFB CA

73-61

APR

PAGE 1

**ALL**

[illegible]

## PSYCHROMETRIC SUMMARY

73-81

**YEARS**

APR  
MONTH

PAGE 2

ALL

ALL  
HOURS 11.5.7.1

Temp. (F)	WET BULB TEMPERATURE DEPRESSION (F)																								TOTAL		TOTAL		
	0	1-2	3-4	5-6	7-8	9-10	11-12	13-14	15-16	17-18	19-20	21-22	23-24	25-26	27-28	29-30	≥ 31	D.B./W.B.	Dry Bulb	Wet Bulb	Dew Point								
/ 25																						85							
/ 23																						33							
2/ 21																						21							
/ 19																						8							
T TAL	.316	.622	.213	.911	.2	9.5	7.7	6.0	5.1	2.9	1.7	1.3	.8	.5	.2			6478			6478								
																		6478			6478								

## PSYCHROMETRIC SUMMARY

YEARS

MAY  
MONTH

HOURS (L, S, T)

[illegible]

## PSYCHROMETRIC SUMMARY

YEARS

MAY  
MONTH

PAGE 1 0300-0500  
HOURS (L. S. T.)

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

# PSYCHROMETRIC SUMMARY

724835 MATHER AFB CA

73-81

YEARS

MAY  
MONTH

PAGE 1 0600-0800  
HOURS (L. S. T.)

Temp. (F)	WET BULB TEMPERATURE DEPRESSION (F)																																	TOTAL D.B./W.B.	TOTAL		
	0	1-2	3-4	5-6	7-8	9-10	11-12	13-14	15-16	17-18	19-20	21-22	23-24	25-26	27-28	29-30	31	Dry Bulb	Wet Bulb	Dew Point																	
6 / 85												.1																					1	1			
5 / 83										.1																							1	1			
4 / 81											.1																						1	1			
3 / 79										.1																							1	1			
2 / 77									.2	.4	.1																					6	6				
1 / 75									.1	.2	.1																					4	4				
0 / 73						.1	.2	.6	.5	.1																					13	13					
2 / 71						.1	.8	.6	.6	.1																					17	17					
1 / 69					.1	.8	1.0	.2	.4																							21	21				
0 / 67					.5	1.4	.8	.4	.2																							31	31				
6 / 65				.2	1.3	1.9	.5	.7	.1																							40	40	2			
4 / 63		.1		.7	2.4	2.7	.7	.1																								51	51	3			
2 / 61				2.1	3.2	.7	.4	.1																								54	54	16			
1 / 59			.8	3.6	3.6	1.8	.2	.2																								86	86	33	1		
0 / 57		.5	3.5	4.9	3.1	.7	.2	.1																								108	108	55	3		
5 / 55		.1	4.1	6.7	2.4	.7	.2																									119	119	87	7		
4 / 53		.5	6.9	3.6	2.6	.5	.2																									120	120	123	28		
2 / 51		1.4	5.1	1.3	.8	.2																										75	75	132	64		
5 / 49		1.8	2.7	1.3	.5																											47	47	175	110		
4 / 47		.7	1.3	.8																												24	24	98	172		
4 / 45		.4	.4	.4																												9	9	55	155		
4 / 43		.2	.4																													5	5	38	78		
2 / 41		.1	.1																													2	2	13	67		
4 / 39		.1																														1	1	6	61		
3 / 37																																			1	41	
2 / 35																																				19	
3 / 33																																				15	
2 / 31																																				8	
5 / 29																																				4	
2 / 27																																				1	
1 / 25																																				3	
TOTAL		6.0	24.6	25.6	20.8	11.1	5.1	3.5	2.4	.7	.1	.1																				837	837	837			
Element (X)	ΣX'		ΣX		X		X		X		No. Obs.		Mean No. of Hours with Temperature							Total																	
Rel. Hum.	3618987		53839		64.3		13.654		837		≤ 0 F   ≤ 32 F   = 67 F   = 73 F   = 80 F   = 93 F																										
Dry Bulb	2841266		48442		57.9		6.711		837									93																			
Wet Bulb	2219442		42934		51.3		4.528		837									93																			
Dew Point	1733481		37847		45.2		5.146		837		1.8							93																			

FORM 0-26-5 (OL A) REVISION PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE

USAFETAC







GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AF WEATHER SERVICE/MAC

# PSYCHROMETRIC SUMMARY

724835 MATHER AFB CA  
STATION STATION NAME

73-81

YEARS

MAY  
MONTH

PAGE 1 1200-1400  
HOURS (L. S. T.)

Temp. (F)	WET BULB TEMPERATURE DEPRESSION (F)																					TOTAL D.B./W.B.	TOTAL		
	0	1-2	3-4	5-6	7-8	9-10	11-12	13-14	15-16	17-18	19-20	21-22	23-24	25-26	27-28	29-30	> 31	TOTAL			TOTAL				
																		Dry Bulb	Wet Bulb	Dew Point					
1 / 99																.1	.1	2			2				
2 / 97																.2	.1	3			3				
6 / 95													.1	.2	.1	.2		6			6				
7 / 93												.1	.5	.1	.7	.6	.5	21			21				
7 / 91												.1	.1	.7	.8	.7	.1	24			24				
7 / 89											.5	.1	.7	.8	1.1	.7	.5	37			37				
8 / 87										.1	1.2	.7	1.1	1.0	.4	.1		38			38				
6 / 85								.1	.1	.7	.5	1.9	.8	.4	.2			40			40				
4 / 83								.1	.5	1.9	1.8	1.2	.8	.1				54			54				
7 / 81								.2	.2	1.7	2.4	1.0	1.3					57			57				
7 / 79							.1	.5	2.5	2.6	1.8	.7	.4					72			72				
7 / 77							.5	2.2	3.3	1.1	.6	.2	.1					67			67				
6 / 75							.3	2.0	2.3	1.9	1.3	.6	.1					71			71				
4 / 73							.6	2.4	2.2	1.9	.6	.4						67			67				
7 / 71						.1	1.1	2.4	2.0	.7	1.0							61			61		11		
7 / 69						.8	1.7	2.5	1.4	.6	.4							62			62		16		
6 / 67					.1	.8	1.3	1.0	1.2	1.0	.1							46			46		48		
6 / 65				.2	.4	.6	.8	.6	1.0	.1	.1							32			32		64	1	
4 / 63				.2	.1	.5	1.2	.6	.2	.1								25			25		104	2	
7 / 61			.4	.1	.4	.5	.5	.2	.1									18			18		124	8	
7 / 59				.5	.4	.1	.6	.2										17			17		128	10	
7 / 57		.1		.1	.2	.8	.1											12			12		119	16	
5 / 55		.1																1			1		69	34	
4 / 53		.2	.1	.1														4			4		59	52	
7 / 51																							47	92	
5 / 49																							25	96	
7 / 47																							20	108	
4 / 45																							1	93	
4 / 43																								76	
2 / 41																								65	
4 / 39																								47	
3 / 37																								33	
7 / 35																								28	
3 / 33																								32	
Element (X)	$\Sigma X^2$		$\Sigma X$		$\bar{X}$		$\sigma^2$		No. Obs.		Mean No. of Hours with Temperature						Total								
Rel. Hum.											$\leq 0 F$	$\leq 32 F$	$\leq 67 F$	$\leq 73 F$	$\leq 80 F$	$\leq 93 F$									
Dry Bulb																									
Wet Bulb																									
Dew Point																									

USAFETAC FORM 0-26-5 (OLA) REVISED PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE

## PSYCHROMETRIC SUMMARY

YEARS

MAY  
MONTH

PAGE 7 1200-1400  
NO. 85 (L. S. T.)

Temp. (F)	WET BULB TEMPERATURE DEPRESSION (F)																															TOTAL		TOTAL	
	0	1-2	3-4	5-6	7-8	9-10	11-12	13-14	15-16	17-18	19-20	21-22	23-24	25-26	27-28	29-30	≥ 31	D.B./W.B.	Dry Bulb	Wet Bulb	Dew Point														
/ 31																						26													
/ 2																						6													
/ 27																						5													
/ 25																						4													
/ 23																						1													
/ 21																						2													
TOTAL	.5	.5	1.3	1.5	4.3	3.5	13.4	15.9	17.2	12.5	8.4	6.6	4.4	3.0	1.7	.4		837	837		837														

## PSYCHROMETRIC SUMMARY

YEARS

MAY  
MONTH

PAGE 1 1570-1700  
HOURS (L. S. T.)

## PSYCHROMETRIC SUMMARY

YEARS

MAY  
MONTH

PAGE 2 1500-1700  
HOURS (L. S. T.)

## PSYCHROMETRIC SUMMARY

YEARS

MAY  
MONTH

PAGE 1 1800-2000

1000 2000  
HOURS (S T)

[illegible]

## PSYCHROMETRIC SUMMARY

     MAY       
MONTH

1600-2000  
HOURS (L. S. T.)

Temp. (F)	WET BULB TEMPERATURE DEPRESSION (F)																															TOTAL		TOTAL	
	0	1-2	3-4	5-6	7-8	9-10	11-12	13-14	15-16	17-18	19-20	21-22	23-24	25-26	27-28	29-30	≥ 31	D.B./W.B.	Dry Bulb	Wet Bulb	Dew Point														
/ 22																						7													
/ 27																						5													
/ 25																						1													
/ 100																						1													
TOTAL	.4	2.2	5.6	8.5	14.8	15.4	13.5	10.0	7.0	5.3	5.5	4.4	3.1	1.7	.6	.2		837	837		837														
																		837		837															

Element (X)	$\Sigma X^2$	$\Sigma X$	$\bar{X}$	$s^2$	No. Obs.	Mean No. of Hours with Temperature					Total	
						≤ 0 F	≤ 32 F	≥ 67 F	≥ 73 F	≥ 80 F	≥ 93 F	
Rel. Hum.	1783143	36532	43.7	14.998	837							
Dry Bulb	4281788	59318	70.9	9.655	837			60.7	38.7	18.2	1.0	93
Wet Bulb	2767310	47920	57.3	5.301	837			3.4				93
Dew Point	1800536	38404	45.9	6.782	837		3.8					93



## PSYCHROMETRIC SUMMARY

MAY  
MONTH

2100-2300  
HOURS (L. S. T.)

Temp. (F)	WET BULB TEMPERATURE DEPRESSION (F)																												TOTAL D.B./W.B.	TOTAL		
	0	1-2	3-4	5-6	7-8	9-10	11-12	13-14	15-16	17-18	19-20	21-22	23-24	25-26	27-28	29-30	≥ 31	Dry Bulb	Wet Bulb	Dew Point												
67 / 85												.1						1	1													
67 / 83												.1						1	1													
67 / 81							.1											1	1													
67 / 79						.1			.2	.5	.1	.1						9	9													
7 / 77					.1				.8	.1	.2							11	11													
67 / 75					.2	.4	.4	.5	.5	.5	.1							17	17													
47 / 73				.2	.6	.5	.8	.2										20	20													
67 / 71				1.1	.5	.7	.2	.2										23	23													
67 / 69				.5	1.0	2.0	1.0	.6										42	42	2												
67 / 67			.2	1.4	1.6	1.7	.6	.1	.1									48	48	2												
67 / 65			.7	2.3	2.3	1.1	.4	.5										60	60	3												
47 / 63			1.6	3.3	2.0	.4	.5	.1										73	73	12	2											
67 / 61		.5	2.4	4.0	1.7	.7	.2											86	86	36	2											
67 / 59		1.1	4.7	3.0	2.0	.5	.2	.1										97	97	56	1											
67 / 57		.1	1.7	4.2	3.3	1.7	.1											95	95	90	7											
57 / 55		3.6	5.3	2.8	1.7	.1												100	100	106	23											
47 / 53		.4	4.0	3.0	2.1	.2												88	88	138	59											
67 / 51		.1	2.7	1.0	.6													31	31	130	60											
57 / 49		.2	1.3	.5	.4													20	20	133	130											
67 / 47		.2	.5	.5	.1													12	12	71	143											
47 / 45		.1																1	1	41	133											
47 / 43				.1														1	1	9	84											
27 / 41																				7	65											
67 / 39																					51											
37 / 37																				1	37											
67 / 35																					18											
37 / 33																					13											
27 / 31																					7											
67 / 29																					1											
67 / 25																					1											
TOTAL	1.2	15.7	24.0	23.9	16.0	8.1	4.4	4.1	1.7	.5	.4							637	937	837	837											

Element (X)	$\Sigma X'$	$\Sigma X$	$\bar{X}$	$\sigma_X$	No. Obs.	Mean No. of Hours with Temperature						
Rel. Hum.	3139940	50074	59.8	13.135	837	≤ 0 F	≤ 32 F	≤ 67 F	≥ 73 F	≥ 80 F	≥ 93 F	Total
Dry Bulb	3146420	50981	60.9	7.022	837			19.2	6.7	.9		93
Wet Bulb	2370481	44445	53.1	4.696	837			.4				93
Dew Point	1803732	38596	46.1	5.356	837		1.0					93

0-26-5 (OLA) REVISED PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE

**USAFETAC**

## PSYCHROMETRIC SUMMARY

73-61

YEARS

    MAY      
MONTH

PAGE 1

ALL  
HOURS (L. S. T.)

Temp. (F)	WET BULB TEMPERATURE DEPRESSION (F)																															TOTAL D.B./W.B.	TOTAL		
	0	1-2	3-4	5-6	7-8	9-10	11-12	13-14	15-16	17-18	19-20	21-22	23-24	25-26	27-28	29-30	≥ 31	Dry Bulb	Wet Bulb	Dew Point															
2/ 101																	.0	1	1																
7/ 99																	.0	7	7																
5/ 97																	.0	7	7																
6/ 95														.1	.1	.1	.0	27	27																
4/ 93											.0	.1	.0	.2	.2	.2	.0	58	58																
1/ 91									.0	.0	.0	.1	.2	.3	.4	.1	.1	80	80																
1/ 89										.1	.0	.2	.3	.4	.3	.2	.0	107	107																
6/ 87										.1	.2	.3	.4	.3	.2	.0		98	98																
6/ 85								.1	.1	.2	.4	.7	.4	.2	.1			145	145																
4/ 83								.1	.7	.2	.4	.6	.5	.2	.0			167	167																
1/ 81								.7	.1	.3	.5	.9	.5	.3	.1			179	179																
1/ 79							.7	.1	.2	.5	1.1	.7	.4	.2	.0			217	217																
7/ 77							.0	.0	.3	1.1	1.1	.4	.3	.2	.1			239	239																
5/ 75							.1	.3	1.0	1.4	.8	.3	.2	.0				274	274	2															
4/ 73							.1	.6	1.1	1.1	.7	.3	.2	.0				282	282	8															
1/ 71						.0	.3	1.1	1.3	.7	.3	.3	.0	.0				278	278	26															
1/ 69						.1	1.0	1.3	1.2	.8	.3	.1						325	325	50															
5/ 67				.1	.7	1.2	1.5	.7	.5	.4	.0							345	345	125															
6/ 65				.3	1.1	1.6	1.7	.5	.4	.1	.0							338	338	208															
4/ 63		.1	.7	.6	1.4	1.9	1.7	.5	.1	.0								375	375	350															
2/ 61			.3	1.3	2.2	1.1	.4	.3	.1									382	382	515															
1/ 59		.1	.7	2.3	1.7	1.1	.4	.3	.1									434	434	611															
1/ 57		.1	1.6	2.6	1.8	.7	.3	.1										471	471	641															
5/ 55		.2	2.1	3.2	1.2	.4	.1	.1										482	482	683															
4/ 53		.6	3.6	1.9	1.1	.3	.1											506	506	779															
2/ 51		.8	3.1	1.2	.4	.0	.0											377	377	746															
5/ 49		1.1	1.6	.7	.2													248	248	823															
4/ 47		.5	.9	.6	.1													139	139	538															
2/ 45		.3	.4	.2														59	59	310															
4/ 43		.2	.2	.1														33	33	161															
2/ 41	.7	.1	.7															12	12	80															
4/ 39		.1																4	4	33															
3/ 37																																			

## PSYCHROMETRIC SUMMARY

MAY  
MONTH

ALL

HOURS (L, S, T.)

Temp. (F)	WET BULB TEMPERATURE DEPRESSION (F)																												TOTAL	TOTAL		
	0	1-2	3-4	5-6	7-8	9-10	11-12	13-14	15-16	17-18	19-20	21-22	23-24	25-26	27-28	29-30	≥ 31	D.B./W.B.	Dry Bulb	Wet Bulb	Dew Point											
3 / 33																						176										
2 / 31																						151										
1 / 29																						31										
0 / 27																						23										
-1 / 25																						27										
-2 / 23																						6										
-3 / 21																						4										
-4 / 19																						1										
TOTAL	4.0	14.6	15.0	12.1	9.9	8.4	7.8	7.3	6.2	4.3	3.5	2.7	1.9	1.4	.8	.2		6696	6696	6696												

## PSYCHROMETRIC SUMMARY

724835      MATHER AFB CA  
STATION      STATION NAME

73-81

**YEARS**

JUN  
MONTH

PAGE 1 0000-0200  
HOURS (L. S. T.)

## PSYCHROMETRIC SUMMARY

124835      MATHER AFB CA

73-81

**JUN**  
**MONTH**

STATION

STATION NAME

**YEARS**

**MONTH**

PAGE 1 0300-0500

HOURS (L. S. T.)

## PSYCHROMETRIC SUMMARY

JUN  
MONTH

PAGE 1 0600-0800  
HOURS (L. S. Y.)

Temp. (F)	WET BULB TEMPERATURE DEPRESSION (F)																															TOTAL	TOTAL		
	0	1-2	3-4	5-6	7-8	9-10	11-12	13-14	15-16	17-18	19-20	21-22	23-24	25-26	27-28	29-30	≥ 31	D.B./W.B.	Dry Bulb	Wet Bulb	Dew Point														
6 / 85										.1								1	1																
4 / 83										.1	.7							7	7																
1 / 81								.1	.4	.2	.1	.2						9	9																
1 / 79								.2	.6	.5	.2	.2						15	15																
7 / 77							.1	.5	1.0	.2	.2	.1	.1					19	19																
6 / 75					.1	.2	.6	1.2	.6	.7	.4							32	32																
4 / 73						.4	1.1	.9	.7	.2								27	27																
1 / 71					.5	.7	2.1	.9	.9	.2	.2							45	45																
1 / 69				.1	.7	2.2	.6	1.5	.6	.2								49	49																
6 / 67					2.1	2.1	2.2	.7	.4	.1								62	62	.4															
6 / 65			.1	.4	2.8	2.5	1.5	.4	.2	.1								65	65	11															
4 / 63				2.3	2.6	3.0	.9	.4										74	74	38	1														
2 / 61		.2	1.0	4.1	4.6	3.8	.9											118	118	55															
1 / 59		.1	1.7	4.7	3.2	2.1	.4											99	99	77	7														
1 / 57		.1	4.3	3.8	2.3	2.5	.1											107	107	97	16														
5 / 55		.2	3.3	1.6	1.1	.5												55	55	143	32														
4 / 53		.7	1.0	.5	.2	.1												21	21	162	89														
2 / 51			.1	.2														3	3	124	121														
5 / 49			.1	.1														2	2	61	133														
1 / 47																				30	105														
4 / 45																				7	84														
4 / 43																				1	72														
2 / 41																						65													
4 / 39																						36													
3 / 37																						24													
3 / 35																						15													
3 / 33																						5													
2 / 31																						2													
3 / 29																						1													
2 / 27																						1													
2 / 25																						1													
TOTAL		1.5	11.7	17.9	20.4	20.1	10.5	6.8	5.4	3.0	2.0	.6	.1						810		810														
																		810		810															
Element (X)	Σ X'		Σ X		X		σ <sub>s</sub>		No. Obs.		Mean No. of Hours with Temperature																								
Rel. Hum.	2787761		46109		56.9		14.195		810		≤ 6 F		≤ 32 F		≥ 67 F		≥ 73 F		≥ 80 F		≥ 93 F		Total												
Dry Bulb	3370833		51951		64.1		6.930		810						29.6		12.2		2.8				90												
Wet Bulb	2486193		44741		55.2		4.290		810								.4						90												
Dew Point	1861715		38581		47.6		5.454		810				.6										90												

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

# PSYCHROMETRIC SUMMARY

724835 MATHER AFB CA

73-81

JUN

STATION

STATION NAME

YEARS

MONTH

PAGE 1

0900-1100

HOURS (L. S. Y.)

Temp. (F)	WET BULB TEMPERATURE DEPRESSION (F)																				TOTAL D.B./W.B.	TOTAL		
	0	1-2	3-4	5-6	7-8	9-10	11-12	13-14	15-16	17-18	19-20	21-22	23-24	25-26	27-28	29-30	≥ 31					Dry Bulb	Wet Bulb	Dew Point
8/ 97														.1	.1	.1	.2				5	5		
5/ 95														.1	.2	.1					4	4		
4/ 93												.2	.6	.6	.5						16	16		
/ 91												.4	.5	1.2	.6	.2					24	24		
/ 89											.2	1.1	.9	.7		.1					25	25		
8/ 87										.1	.8	1.4	.6	.5	.4	.1					32	32		
6/ 85										.6	1.1	1.7	.6	.2	.1	.1					37	37		
4/ 83									.4	1.6	1.6	1.1	.6	.2							45	45		
/ 81								.1	1.6	1.1	1.1	1.2		.2							44	44		
/ 79					.1			1.4	2.1	1.4	1.5	.5	.4								59	59		
7/ 77						.1	.1	1.5	1.7	1.5	.5										44	44		
6/ 75						.1	1.5	2.1	2.3	2.2	.2										71	71		
4/ 73						.1	.1	2.2	3.1	2.5	.9	.1	.1								74	74		
/ 71						.4	1.4	2.5	3.2	1.1	.4										72	72	5	
/ 69						.2	3.0	4.1	2.5	1.0	.1										88	88	14	
/ 67				.1	.7	2.7	2.3	1.0	.4												59	59	51	1
6/ 65				.1	2.5	1.9	2.1	.5	.1												58	58	92	
4/ 63				.5	1.3	1.5	.4	.1													28	28	90	1
/ 61				.6	1.7	.5															17	17	124	1
/ 59				.2	.4	.1															6	6	149	7
/ 57				.1	.1																2	2	142	32
5/ 55																							74	73
4/ 53																							50	108
2/ 51																							16	107
5/ 49																							3	95
4/ 47																								129
4/ 45																								83
4/ 43																								85
2/ 41																								36
4/ 39																								14
3/ 37																								13
/ 35																								15
3/ 33																								4
2/ 31																								3
Element (X)	Σ X'		Σ X		Σ		Σ A		No. Obs.		Mean No. of Hours with Temperature													
Rel. Hum.											≤ 0 F	≤ 32 F	≥ 67 F	≥ 73 F	≥ 80 F	≥ 93 F	Total							
Dry Bulb																								
Wet Bulb																								
Dew Point																								

USAFETAC FORM 0-26-5 (OL A) REVISED PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE

## PSYCHROMETRIC SUMMARY

724835  
STATION

MATHER AFB CA

STATION NAME

73-91

**YEARS**

JUN  
MONTH

PAGE 2

0900-1100  
HOURS (L. S. T.)



## PSYCHROMETRIC SUMMARY

73-81

JUN

STATION

STATION NAME

YEARS

**MONTH**

PAGE 1

1200-1400

1200-1400  
HOURS (L. S. T.)

## PSYCHROMETRIC SUMMARY

**YEARS**

\_\_\_\_\_ MONTH

PAGE 7 1200-1400  
HOURS (L. S. T.)

[illegible]

REVISED PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE

DL A)

Power

**USAFETAC**

## PSYCHROMETRIC SUMMARY

YEARS

JUN  
MONTH

PAGE 1 1500-1700  
HOURS (L. S. T.)

## PSYCHROMETRIC SUMMARY:

YEARS

JUN  
MONTH

HOURS 11 5 3

Temp. (F)	WET BULB TEMPERATURE DEPRESSION (F)																				TOTAL		TOTAL	
	0	1-2	3-4	5-6	7-8	9-10	11-12	13-14	15-16	17-18	19-20	21-22	23-24	25-26	27-28	29-30	+31	D.B./W.B.	Dry Bulb	Wet Bulb	Dew Point			
37																					39			
35																					23			
33																					17			
31																					26			
29																					4			
27																					2			
25																					1			
TAL						.1	.5	2.5	5.2	5.6	9.3	11.6	13.1	11.0	9.5	8.8	9.4	13.6	810		810			
																			810		810			

## PSYCHROMETRIC SUMMARY

724855  
STATION

1ATHER AFB CA

73-81

JUN  
MONTH

PAGE 1 1800-2000  
HOURS (L. S. T.)

HOURS (L. S. T.)



## PSYCHROMETRIC SUMMARY

73-81

JUN

STATION

STATION NAME

YEARS

MONTH

PAGE 1 2100-2300  
HOURS (L. S. T.)

## PSYCHROMETRIC SUMMARY

724815      MATHER AFB CA  
STATION      STATION NAME

73-81

YEARS

JUN  
MONTH

PAGE 1

ALL  
HOURS (L. S. T.)



GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AF WEATHER SERVICE/MAC

# PSYCHROMETRIC SUMMARY

724835  
STATION

MATHER AFB CA  
STATION NAME

73-81  
YEARS

YEARS

JUN  
MONTH

PAGE 2

ALL  
HOURS (L. S. Y.)

Temp. (F)	WET BULB TEMPERATURE DEPRESSION (F)																						TOTAL D.B./W.B.	TOTAL		
	0	1-2	3-4	5-6	7-8	9-10	11-12	13-14	15-16	17-18	19-20	21-22	23-24	25-26	27-28	29-30	≥ 31	Dry Bulb Wet Bulb Dew Point								
3 / 37																										232
2 / 35																										173
3 / 33																										65
2 / 31																										80
1 / 29																										18
1 / 27																										8
1 / 25																										4
2 / 21																										4
1 / 1																										6
TOTAL	1.0	6.9	9.2	10.9	11.9	9.5	8.7	7.3	6.7	6.2	5.7	4.1	3.5	3.0	2.6	2.9								6478		6478
																								6478		6478

Element (X)	$\Sigma X^2$	$\Sigma X$	$\bar{X}$	$\sigma^2$	No. Obs.	Mean No. of Hours with Temperature						Total
Rel. Hum.	15345416	291978	45.1	18.368	6478	≤ 0 F	≤ 32 F	≥ 67 F	≥ 73 F	≥ 80 F	≥ 93 F	
Dry Bulb	35108770	469972	72.5	12.500	6478			447.8	335.2	216.3	57.0	720
Wet Bulb	22350566	378597	58.4	5.892	6478			73.0	2.4			720
Dew Point	14791657	306927	47.4	6.215	6478		13.3	.3				720

USAFETAC FORM 0-26-5 (OL A) REVISD PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE

## PSYCHROMETRIC SUMMARY

724835      MATHER AFB CA  
STATION      STATION NAME

73-81

**YEARS**

**MCMTM**

PAGE 1 0000-0200  
HOURS (L. S. T.)

Temp. (F)	WET BULB TEMPERATURE DEPRESSION (F)																			TOTAL		TOTAL		
	0	1-2	3-4	5-6	7-8	9-10	11-12	13-14	15-16	17-18	19-20	21-22	23-24	25-26	27-28	29-30	≥ 31	D.B./W.B.	Dry Bulb	Wet Bulb	Dew Point			
1 / 50									.1									1	1					
1 / 51								.2		.2		.1						5	5					
1 / 52								.1	.1	.2	.2	.2						8	8					
7 / 53					.1	.1	.1	.6	.4	.5	.5							19	19					
6 / 54					.1	.4	.6	1.3	1.1	.4								32	32					
4 / 55				.1	.5	.5	1.1	1.4	1.1	.1								40	40					
2 / 56		.1		.2	.2	1.6	1.3	1.7		.2								39	39					
1 / 57		.1		.6	1.4	3.0	3.2	1.7	.1	.2								87	87	2	1			
8 / 58			.2	.7	3.1	5.9	2.2	.2	.1									104	104	10				
6 / 59		.4		3.6	3.2	4.4	1.2	.1	.1									115	115	11	3			
4 / 60			1.3	2.6	4.9	3.2	.3	.1										109	109	32	6			
2 / 61			1.2	4.2	3.7	1.2	.3	.2										101	101	78	6			
1 / 59			2.6	3.8	1.9	.6	.4											78	78	141	21			
1 / 57		.2	2.6	2.9	.6													53	53	184	34			
5 / 55		.5	2.5	1.1	.5													37	37	158	68			
4 / 53			1.7	.1														9	9	127	102			
2 / 51																				62	138			
5 / 48																				27	152			
1 / 47																				5	147			
4 / 45																					70			
4 / 43																					30			
2 / 41																					27			
1 / 38																					15			
3 / 37																					4			
1 / 35																					8			
3 / 33																					5			
TOTAL		1.3	12.2	19.8	21.0	20.9	11.7	7.0	3.1	1.9	.7	.4						837	837	837	837			
													</											







## PSYCHROMETRIC SUMMARY

**YEARS**

HOURS (L, S, T.)

[illegible]

## PSYCHROMETRIC SUMMARY

YEARS

PAGE 1      1200-1400  
HOURS (L. S. T.)

Temp. (F)	WET BULB TEMPERATURE DEPRESSION (F)																				TOTAL		TOTAL	
	0	1-2	3-4	5-6	7-8	9-10	11-12	13-14	15-16	17-18	19-20	21-22	23-24	25-26	27-28	29-30	≥ 31	D.B./W.B.	Dry Bulb	Wet Bulb	Dew Point			
107																	.2	2	2					
105																	.4	5	5					
103																	.6	13	13					
101														.1	.4	.4	.8	14	14					
99													.1	.5	1.3	1.4	.6	33	33					
97												.1	.2	1.3	1.8	1.8	1.1	53	53					
95										.2	.7	1.2	1.9	2.5	.8	.2	.2	64	64					
93									.1	.1	.4	1.0	2.4	3.3	1.4	.2	.1	76	76					
91									.1	.1	.7	2.5	2.8	2.6	1.1	.5		87	87					
89									.1	.6	1.2	3.1	2.6	.5	.2			70	70					
87									.6	1.1	2.6	2.9	1.3	.5	.1	.1		77	77					
85									.2	2.0	4.1	1.6	1.0	.4				77	77					
83						.1		.2	1.4	2.4	2.2	1.3	.4					67	67					
81						.1		.5	1.4	2.2	1.3	.8	.1					54	54					
79									1.1	1.6	1.9	1.7						52	52					
77							.1	1.4	1.3	.7	.4							33	33	1				
75							.7	1.1	.8	.4								25	25	11				
73					.2	.2	.5	.4	.5									15	15	35				
71					.1	.4	.2	.4										9	9	87	1			
69						.2												2	2	132	2			
67		.1		.1														2	2	179	2			
65		.1	.4															4	4	161	11			
63		.1																1	1	107	16			
61					.1													1	1	69	31			
59																				44	50			
57																			9	73				
55																					126			
53																				1	143			
51																					115			
49																					89			
47																					61			
45																					52			
43																					33			
41																					14			
Element (X)	Σ X'		Σ X		X		C <sub>x</sub>		No. Obs.		Mean No. of Hours with Temperature													
Rel. Hum.											≤ 0 F		≤ 32 F		≥ 67 F		≥ 73 F		≥ 80 F		≥ 93 F		Total	
Dry Bulb																								
Wet Bulb																								
Dew Point																								

## PSYCHROMETRIC SUMMARY

73-61

YEARS

**Abstract**

PAGE 2 1200-1400  
HOURS L.S.T.

Temp. (F)	WET BULB TEMPERATURE DEPRESSION (F)																															TOTAL		TOTAL	
	0	1-2	3-4	5-6	7-8	9-10	11-12	13-14	15-16	17-18	19-20	21-22	23-24	25-26	27-28	29-30	31	D.B. W.B. Diff.	Wet Bulb	Dew Point															
40 / 34																																			
39 / 37																																			
38 / 35																																			
37 / 33																																			
TOTAL	.4	.4	.1	.1	.1	1.1	1.6	5.0	8.3	11.5	14.7	14.0	12.1	11.1	8.9	5.5	5.0	836	836	836															

Element (X)	$\Sigma X^1$	$\Sigma X$	$\bar{X}$	$s^2$	No. Obs.	Mean No. of Hours with Temperature						Total
Rel. Hum.	901167	26053	31.2	10.339	836	$\leq 0^\circ F$	$\leq 32^\circ F$	$\leq 67^\circ F$	$\leq 73^\circ F$	$\leq 80^\circ F$	$\leq 93^\circ F$	93
Dry Bulb	6551695	73725	88.2	7.742	836			92.3	90.9	80.8	28.9	93
Wet Bulb	3725056	55716	66.6	3.761	836			49.5	5.2			93
Dew Point	2350618	44082	52.7	5.600	836			.6				93

USAFETAC  
FORM  
AF 44  
0-26-5 (OL A)  
REVISED EDITIONS OF THIS FORM ARE OBSOLETE



## PSYCHROMETRIC SUMMARY

YEARS

JUL  
MONTH

PAGE 1 1500-1700  
HOURS (L. S. T.)

## PSYCHROMETRIC SUMMARY

YEARS

MONTANA

HOURS (L. S. T.)

[illegible]

## PSYCHROMETRIC SUMMARY

JUL  
MONTH

PAGE 1 1870-2000  
HOURS (L. S. T.)

## PSYCHROMETRIC SUMMARY

**YEARS**

JUL  
MONTH

1600-2000  
HOURS (L. S. T.)

Temp. (F)	WET BULB TEMPERATURE DEPRESSION (F)																		TOTAL		TOTAL		
	0	1-2	3-4	5-6	7-8	9-10	11-12	13-14	15-16	17-18	19-20	21-22	23-24	25-26	27-28	29-30	≥ 31	D.B./W.B.	Dry Bulb	Wet Bulb	Dew Point		
4 / 30																						11	
5 / 37																						9	
7 / 35																						8	
3 / 33																						1	
✓ 31																						3	
TOTAL		.5	.2	1.1	2.4	4.7	8.4	11.7	10.5	11.6	12.9	10.4	6.7	6.1	5.7	4.3	4.2		837		837	837	
																		837		837			



## PSYCHROMETRIC SUMMARY

YEARS

**JUL**  
**MONTH**

PAGE 1

ALL  
HOURS (L. S. T.)

[illegible]

## PSYCHROMETRIC SUMMARY

**YEARS**

JUL  
MONTH

ALL  
HOURS (L. S. T.)

[illegible]





## PSYCHROMETRIC SUMMARY

YEARS

AUG  
MONTH

PAGE 1 0300-0500  
HOURS (L. S. T.)

[illegible]

0-26-5 (OLA) REVISED PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE

**USAFETAC**



## PSYCHROMETRIC SUMMARY

**AUG**  
**MONTH**

PAGE 1 0900-1100  
HOURS (L. S. T.)

Temp. (F)	WET BULB TEMPERATURE DEPRESSION (F)																				TOTAL D.B./W.B.	TOTAL		
	0	1-2	3-4	5-6	7-8	9-10	11-12	13-14	15-16	17-18	19-20	21-22	23-24	25-26	27-28	29-30	≥31	Dry Bulb	Wet Bulb	Dew Point				
10 / 99														.1		.1		2	2					
8 / 97																.4		3	3					
6 / 95													.4	.4				6	6					
4 / 93										.1		.2	.2	.4				8	8					
2 / 91											.2	1.1	.1	.1				13	13					
0 / 89									.1	.1	.2	1.2	.4	.2				19	19					
8 / 87									.1	.1	1.0	1.3	.4					24	24					
6 / 85									.4	1.1	2.0	1.2	.1					40	40					
4 / 83								.4	.2	2.0	1.3	.8						40	40					
2 / 81							.1	.4	1.6	3.1	1.0		.1					52	52					
0 / 79							.4	2.0	3.7	1.1	.8	.1						68	68					
7 / 77						.4	.8	3.6	3.0	1.1								74	74					
6 / 75						.7	2.9	3.7	1.1	.2								71	71	1				
4 / 73					.4	1.4	5.4	3.2	.8	.1								95	95	2				
2 / 71				.1	.6	4.1	5.5	1.1	.1									96	96	10				
0 / 69				.4	3.1	4.9	1.9	.4	.2									91	91	24				
6 / 67			.2	.6	3.6	3.3	.5	.2										71	71	57				
6 / 65			.1	1.7	2.3	.8	.1											42	42	111				
4 / 63		.2	.2	.6	.6													14	14	172				
2 / 61		.2	.1	.4	.1	.1												8	8	216				
0 / 59																				156				
0 / 57																				69				
5 / 55																				16				
4 / 53																				2				
2 / 51																				1				
5 / 49																								
4 / 47																								
4 / 45																								
4 / 43																								
2 / 41																								
4 / 39																								
TOTAL		.5	.7	3.7	10.6	15.8	17.6	14.9	11.4	9.0	6.3	5.1	2.6	1.2	.5	.1		837	837	837				
																		837	837					

Element (X)	Σ x'	Σ x	̄x	s <sub>x</sub>	No. Obs.	Mean No. of Hours with Temperature						
Rel. Hum.	1978773	39377	47.0	12.290	837	≤ 0 F	≤ 32 F	≤ 67 F	≤ 73 F	≤ 80 F	≥ 93 F	Total
Dry Bulb	4846244	63396	75.7	7.297	837			85.9	57.2	25.9	2.1	93
Wet Bulb	3269474	52238	62.4	3.326	837			10.4	.3			93
Dew Point	2377568	44496	53.2	3.805	837							93



## PSYCHROMETRIC SUMMARY

AUG  
MONTH

PAGE 2 1200-1400  
HOURS (L. S. T.)

Temp. (F)	WET BULB TEMPERATURE DEPRESSION (F)																	TOTAL	TOTAL		
	0	1-2	3-4	5-6	7-8	9-10	11-12	13-14	15-16	17-18	19-20	21-22	23-24	25-26	27-28	29-30	≥ 31	D.B./W.B.	Dry Bulb	Wet Bulb	Dew Point
4 / 39																					7
3 / 37																					1
2 / 35																					2
3 / 33																					1
2 / 31																					1
TOTAL		.6	.1		.5	1.6	5.1	8.5	12.9	14.0	13.3	12.7	9.6	8.8	6.7	3.9	1.8		837	837	837
																		837		837	
																	</				

## PSYCHROMETRIC SUMMARY

AUG  
MONTH

PAGE 1 1500-1700  
HOURS (L. S. T.)

Temp. (F)	WET BULB TEMPERATURE DEPRESSION (F)																															TOTAL D.B./W.B.	TOTAL																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																								
	0	1-2	3-4	5-6	7-8	9-10	11-12	13-14	15-16	17-18	19-20	21-22	23-24	25-26	27-28	29-30	≥ 31	Dry Bulb	Wet Bulb	Dew Point																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																					
11 / 113																	.1	1	1																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																						

## PSYCHROMETRIC SUMMARY

YEARS

AUG  
MONTH

PAGE 2      1500-1700  
HOURS (L. S. T.)

[illegible]

## PSYCHROMETRIC SUMMARY

**YEARS**

AUG  
MONTH

PAGE 1 1800-2000  
HOURS (L. S. T.)

[illegible]



AD-A118 461 AIR FORCE ENVIRONMENTAL TECHNICAL APPLICATIONS CENTER--ETC F/G 4/2  
MATHER AFB, CALIFORNIA. REVISED UNIFORM SUMMARY OF SURFACE WEAT--ETC (11)  
JUN 82  
UNCLASSIFIED USAFETAC/DS-82/033 SBI-AD-E850 192 NI

50-5



END  
DATE  
9-82  
DI

## PSYCHROMETRIC SUMMARY

YEARS

**MONTH**

1800-2000  
HOURS (L.S.T.)

[illegible]

## PSYCHROMETRIC SUMMARY

73-91

AUG  
MONTH

PAGE 1 2100-2300  
HOURS (L. S. T.)

[illegible]



## PSYCHROMETRIC SUMMARY

    AUG      
MONTH

**ALL**

HOURS (L. S. T.)

Temp. (F)	WET BULB TEMPERATURE DEPRESSION (F)																		TOTAL	TOTAL		
	0	1-2	3-4	5-6	7-8	9-10	11-12	13-14	15-16	17-18	19-20	21-22	23-24	25-26	27-28	29-30	≥ 31	D.B./W.B.	Dry Bulb	Wet Bulb	Dew Point	
4 / 43																					189	
2 / 41																					154	
4 / 39																					90	
3 / 37																					50	
5 / 35																					23	
3 1/2 / 33																					3	
2 / 31																					6	
TOTAL	.1	3.2	10.7	11.0	10.6	10.5	9.9	8.2	6.9	6.7	5.6	4.8	3.6	3.2	2.4	1.7	1.5		6696		6696	
																			6696		6696	



## PSYCHROMETRIC SUMMARY

SEP  
MONTH

10483 11 5 2

0-26-5 (OLA)

## PSYCHROMETRIC SUMMARY

**YEARS**

0600-0800  
HOURS (L. S. T.)

[illegible]



## PSYCHROMETRIC SUMMARY

**YEARS**

SEP  
MONTH

PAGE 1 0900-1100  
HOURS (L. S. T.)

Temp. (F)	WET BULB TEMPERATURE DEPRESSION (F)																				TOTAL D.B./W.B.	TOTAL		
	0	1-2	3-4	5-6	7-8	9-10	11-12	13-14	15-16	17-18	19-20	21-22	23-24	25-26	27-28	29-30	≥ 31	Dry Bulb	Wet Bulb	Dew Point				
4 / 93												.1	.1	.2				4	4					
4 / 91											.1	.2	.2	.2				5	5					
4 / 89										.1	.2	.6	.4	.1				12	12					
8 / 87										.4	.4	1.4	.4					20	20					
6 / 85									.2	.6	1.5		.2	.1				22	22					
4 / 83									.5	1.6	2.2	.2	.2					39	39					
4 / 81								.5	1.5	1.5	1.4	.6						44	44					
4 / 79							.4	1.1	2.1	1.2	.7	.2						47	47					
7 / 77						1.4	2.2	2.1	1.4	.5	.1							62	62					
6 / 75						1.4	2.2	3.5	1.0	.4								68	68					
4 / 73					.1	2.0	3.1	3.0	1.2	.1	.1							78	78					
4 / 71					1.2	4.0	4.2	1.4	.1	.1	.2							91	91	3				
4 / 69				.4	2.7	5.6	2.1	1.0	.5	.2								101	101	14				
6 / 67			.1	.7	4.8	2.8	.7	.1	.4									79	79	29				
6 / 65		.1	.2	2.1	3.2	.7	.4		.1									55	55	103				
4 / 63		.2	.5	2.6	1.6	.5	.1											45	45	132				
4 / 61		.2	.7	1.5	.6		.1	.1										27	27	171				
4 / 59		.2	.4	.4														8	8	183				
4 / 57		.2																2	2	108				
5 / 55		.1																1	1	42				
4 / 53																				18				
4 / 51																				4				
5 / 49																				3				
4 / 47																								
4 / 45																								
4 / 43																								
42 / 41																								
4 / 39																								
3 / 37																								
26 / 35																								
3 / 33																								
2 / 31																								
TOTAL		1.2	2.0	7.5	14.3	16.9	14.7	12.8	9.8	7.7	7.4	3.3	1.6	.7				810	810	810				
Element (X)	Σ X²		Σ X		Σ		Σ		Σ		No. Obs.		Mean No. of Hours with Temperature											
Rel. Hum.	2152773		40197		49.6		13.973		810		≥ 10 F		≥ 32 F		≥ 67 F		≥ 73 F		≥ 80 F		≥ 93 F		Total	
Dry Bulb	4400432		59418		73.4		7.187		810						74.7		44.6		18.7		.4		90	
Wet Bulb	3038267		49527		61.1		3.510		810						5.1								90	
Dew Point	2230825		42337		52.3		4.712		810						.1								90	

## PSYCHROMETRIC SUMMARY

YEARS

PAGE 1

1200-1400  
HOURS (L, S, T)

Temp. (F)	WET BULB TEMPERATURE DEPRESSION (F)																				TOTAL D.B./W.B.	TOTAL			
	0	1-2	3-4	5-6	7-8	9-10	11-12	13-14	15-16	17-18	19-20	21-22	23-24	25-26	27-28	29-30	>31	Dry Bulb	Wet Bulb	Dew Point					
2 / 1												.1		.1			.2	3	3						
3 / 9												.1				.6	.4	.2	11	11					
3 / 97											.2	.1	.1	.7	.7	.6	.1	22	22						
6 / 95											.2	.4	.6	1.0	1.6	.1		32	32						
4 / 93											.6	.4	.6	1.6	1.4	.1		38	38						
1 / 91									.2		.5	1.4	1.5	1.5	.1	.2		44	44						
1 / 89									.1	.1	1.5	1.5	2.3	.4	.5			52	52						
8 / 97									.5	.4	1.7	2.6	1.1	1.7		.1		66	66						
6 / 85								.1	.5	1.5	3.5	1.6	1.2					68	68						
4 / 83								.2	1.0	3.6	3.8	1.6	.4	.1				87	87						
1 / 81								.7	3.0	3.6	2.2	.5	.2	.2				85	85						
1 / 79							.2	1.5	2.6	2.3	1.1	.5	.1					68	68						
7 / 77						.1	1.1	2.6	3.5	1.1	.1	.1	.2					72	72	4					
6 / 75						.7	1.2	2.2	1.4	.4	.9	.2						57	57	5					
4 / 73					.1	.2	1.4	1.6	.4		.2	.1						33	33	14					
2 / 71					.1	.6	1.5			.1	.1							20	20	29					
1 / 69					.1	1.6	1.1	.2	.2									27	27	73					
6 / 67				.1	.4	.5	.2											10	10	120					
6 / 65		.4		.1														4	4	164					
4 / 63		.2	.4		.1													6	6	154					
2 / 61		.1																1	1	125					
1 / 59		.4																3	3	78					
1 / 57																				20					
5 / 55																				14					
4 / 53																				9					
2 / 51																									
5 / 49																									
4 / 47																									
4 / 45																									
4 / 43																									
2 / 41																									
4 / 39																									
3 / 37																									
1 / 35																									
Element (X)	$\Sigma X^2$	$\Sigma X$	$\bar{X}$	$\sigma^2$	No. Obs.	Mean No. of Hours with Temperature																			
Rel. Hum.																									
Dry Bulb																									
Wet Bulb																									
Dew Point																									

## PSYCHROMETRIC SUMMARY

73-81

YEARS

SEP  
MONTH

PAGE 2 1200-1400  
HOURS (L. S. T.)

Temp. (F)	WET BULB TEMPERATURE DEPRESSION (F)																	TOTAL	TOTAL			
	0	1-2	3-4	5-6	7-8	9-10	11-12	13-14	15-16	17-18	19-20	21-22	23-24	25-26	27-28	29-30	≥ 31	D.B./W.B.	Dry Bulb	Wet Bulb	Dew Point	
34 / 33																						8
27 / 31																						8
1 / 27																						1
TOTAL		1.1	.4	.2	.2	3.8	6.8	9.3	13.1	13.3	16.8	11.1	8.7	7.3	4.9	1.6	.6		809	809	809	
																			809		809	
																</						

USAFETAC FORM 0-26-5 (OLA) REVISED PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE



## PSYCHROMETRIC SUMMARY

73-81

YEARS

SEP  
MONTH

PAGE 2 1500-1700  
HOURS (L. S. T.)

Temp. (F)	WET BULB TEMPERATURE DEPRESSION (F)																		TOTAL		TOTAL		
	0	1 - 2	3 - 4	5 - 6	7 - 8	9 - 10	11 - 12	13 - 14	15 - 16	17 - 18	19 - 20	21 - 22	23 - 24	25 - 26	27 - 28	29 - 30	≥ 31	D.B./W.B.	Dry Bulb	Wet Bulb	Dew Point		
/ 35																					14		
/ 33																					5		
/ 31																					6		
/ 29																					6		
/ 27																					1		
TOTAL		.9	.7	.2	1.1	2.1	4.7	6.1	7.2	10.1	13.8	16.3	11.0	8.5	9.4	4.9	2.8		809		809		
																		809		809			



## PSYCHROMETRIC SUMMARY

YEARS

**SEP**  
**MONTH**

HOURS (L, S, T, J)

[illegible]





## PSYCHROMETRIC SUMMARY

724835  
STATION

MATHER AFB CA

73-81

SEP

PAGE 1



ALL  
HOURS (L, S, T, I)

[illegible]

## PSYCHROMETRIC SUMMARY

**YEARS**

SEP  
MONTH

ALL

HOURS (L. S. T.)

[illegible]

## PSYCHROMETRIC SUMMARY

OCT  
MONTH

PAGE 1 0000-0200  
HOURS (L. S. T.)

[illegible]

## PSYCHROMETRIC SUMMARY

OCT  
MONTH

PAGE 1 0300-0500  
HOURS (L. S. T.)

[illegible]



## PSYCHROMETRIC SUMMARY

724835  
STATION

MATHER AFB CA

73-81

OCT

STATION

STATION NAME

YEARS

**NOTES**

PAGE 1 0900-1100  
HOURS (L. S. T.)

Temp. (F)	WET BULB TEMPERATURE DEPRESSION (F)																				TOTAL D.B./W.B.	TOTAL						
	0	1-2	3-4	5-6	7-8	9-10	11-12	13-14	15-16	17-18	19-20	21-22	23-24	25-26	27-28	29-30	≥ 31	Dry Bulb	Wet Bulb	Dew Point								
/ 91													.1		.1			2	2									
/ 84													.2					2	2									
6 / 87													.4					3	3									
5 / 85												.2	.7					8	8									
4 / 83										.6	.4	.5						12	12									
/ 81									.1	.4	.2							6	6									
/ 79								.2	1.1	1.0	.5	.2						25	25									
7 / 77							.2	.6	1.2	1.0	.4							28	28									
6 / 75							.7	.6	.5	1.0	.1							24	24									
4 / 73					.1	.2	2.3	1.4	1.3	.5	.1							50	50									
2 / 71				.4	.8	1.2	1.8	1.4	.2	.1								50	50									
/ 69			.1	.6	2.5	1.6	1.1	1.0	.1									58	58									
6- / 67			.7	2.5	2.8	2.8	1.8	.5	.2									94	94	3								
6 / 65			.1	1.1	2.5	2.2	1.7	.4										66	66	21								
4 / 63		.1	.5	1.9	4.	2.2	1.7	.7	.4									95	95	51								
2 / 61		.6	1.4	3.5	2.6	1.7	.4	.5										89	89	66								
0 / 59		.5	1.6	3.8	1.7	1.7	.4											80	80	109								
5- / 57		.6	1.7	2.4	1.1	.5	.4	.1										56	56	137								
5 / 55	.6	1.3	2.0	1.2	1.4	.4	.1											59	59	152								
4 / 53		.5	.6	.5	.4	.1												17	17	130								
2 / 51		.1	.2	.4	.1													7	7	82								
5 / 49			.2		.1													3	3	45								
4- / 47			.1															1	1	26								
4 / 45																				10								
4 / 43																				2								
2 / 41																				1								
4 / 39																												
3- / 37																												
1 / 35																												
3 / 33																												
2 / 31																												
1 / 29																												
TOTAL	.6	3.7	8.5	15.6	17.5	15.0	13.3	9.2	7.4	4.9	2.0	1.4	.7		.1			835	835	835								
Element (X)	Σx <sup>1</sup>			Σx			Σx			Σx			No. Obs.			Mean No. of Hours with Temperature												
Rel. Hum.	2757333			46069			55.2			16.078			835			≥ 0 F		≥ 32 F		≥ 67 F		≥ 73 F		≥ 80 F		≥ 93 F		Total
Dry Bulb	3666284			54958			65.8			7.670			835							40.3		17.8		4.9				93
Wet Bulb	2651517			46907			56.2			4.444			835							.3								93
Dew Point	1955855			40135			48.1			5.661			835					.9										93

## PSYCHROMETRIC SUMMARY

724835	MATHER AFB CA
STATION	STATION NAME

73-81

YEARS

OCT  
MONTH

PAGE 1 1200-1400  
HOURS (L. S. T.)

Temp. (F)	WET BULB TEMPERATURE DEPRESSION (F)																			TOTAL D.B./W.B.	TOTAL												
	0	1-2	3-4	5-6	7-8	9-10	11-12	13-14	15-16	17-18	19-20	21-22	23-24	25-26	27-28	29-30	≥ 31	Dry Bulb	Wet Bulb		Dew Point												
0 / 49																	.1	1	1														
8 / 97																	.4	.1	6	6													
6 / 95																	.2		2	2													
4 / 93														.1	.8	.1		9	9														
2 / 91												.1	1.0	.4	.4			15	15														
0 / 89												.2	.7	1.2				18	18														
8 / 87											.6	1.3	.8	.7				29	29														
6 / 85										.2	1.0	1.1	.6	.1				25	25														
4 / 83									.1	1.1	1.2	.2	.5	.4				29	29														
2 / 81								.1	.7	1.6	1.1	2.3	.4					51	51														
0 / 79								.7	1.9	1.7	2.4	.5	.5					64	64														
7 / 77							.6	1.8	1.7	2.2	1.0	.6						65	65														
6 / 75						.2	.9	1.8	2.2	1.7	.6	.5						65	65														
4 / 73						1.1	1.4	2.5	2.0	1.2	.5	.1						74	74														
2 / 71					.1	.6	2.5	2.3	1.7	.8	.4							70	70														
0 / 69				.1	1.3	3.9	1.1	2.3	.7	.4								82	82	6													
6 / 67			.1	.7	2.0	2.3	1.9	.5	.2									65	65	37													
6 / 65			.2	.6	.8	2.9	1.6	1.3	.6									67	67	73													
4 / 63			.4		1.2	1.9	1.1	.4										41	41	97													
2 / 61		.4	.4	.2	.8	1.0	.2	.2										27	27	104													
0 / 59		.1	.5	.5	.2													11	11	147													
0 / 57	.1	.5	.4	.5	.1	.1												14	14	134													
5 / 55		.5	.2															6	6	100													
4 / 53																				83													
2 / 51																				43													
5 / 49																				12													
4 / 47																																	
4 / 45																																	
4 / 43																																	
2 / 41																																	
4 / 39																																	
3 / 37																																	
1 / 35																																	
3 / 33																																	
Element (X)	Σ X'			Σ X			Σ			Σ			Mean No. of Hours with Temperature																				
Rel. Hum.													≤ 0 F			≤ 32 F			≥ 67 F			≥ 73 F			≥ 80 F			≥ 93 F			Total		
Dry Bulb																																	
Wet Bulb																																	
Dew Point																																	

## PSYCHROMETRIC SUMMARY

YEARS

OCT  
MONTH

PAGE 2 1200-1400  
HOURS (L. S. T.)

Temp. (F)	WET BULB TEMPERATURE DEPRESSION (F)																		TOTAL	TOTAL		
	0	1 - 2	3 - 4	5 - 6	7 - 8	9 - 10	11 - 12	13 - 14	15 - 16	17 - 18	19 - 20	21 - 22	23 - 24	25 - 26	27 - 28	29 - 30	> 31	D.B./W.B.	Dry Bulb	Wet Bulb	Dew Point	
2 / 31																						11
/ 29																						4
/ 27																						1
TOTAL	.1	1.4	2.7	1.9	3.9	11.4	14.5	14.1	13.6	11.4	9.0	6.9	4.5	3.6	1.0	.5	.1		836		836	
																			836		836	
																					</	

**USAFETAC** FORM 0-26-5 (OLA)  
REVISED PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE



## PSYCHROMETRIC SUMMARY

724835                      MATHER AFB CA  
STATION                                      STATION NAME

73-81

YEARS

OCT  
MONTH

PAGE 1 1500-1700  
HOURS (L. S. T.)

Temp. (F)	WET BULB TEMPERATURE DEPRESSION (F)																															TOTAL D.B./W.B.	TOTAL																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																								
	0	1-2	3-4	5-6	7-8	9-10	11-12	13-14	15-16	17-18	19-20	21-22	23-24	25-26	27-28	29-30	≥ 31	Dry Bulb	Wet Bulb	Dew Point																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																					
0 / 29																.8		7	7																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																						</

## PSYCHROMETRIC SUMMARY

774835  
STATION

MATHER AFB CA

73-81

OCT  
MONTH

PAGE 2

1500-1700  
HOURS (L, S, T)

[illegible]

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

# PSYCHROMETRIC SUMMARY

72-835 STATION 73-81 YEARS OCT MONTH  
MATHER AFB CA STATION NAME

PAGE 1 1800-2000 HOURS (L. S. T.)

Temp. °(F)	WET BULB TEMPERATURE DEPRESSION (F)																					TOTAL	TOTAL			
	0	1-2	3-4	5-6	7-8	9-10	11-12	13-14	15-16	17-18	19-20	21-22	23-24	25-26	27-28	29-30	≥ 31	D.B./W.B.	Dry Bulb	Wet Bulb	Dew Point					
95															.1			1	1							
91															.1			1	1							
89												.1	.1					2	2							
87												.2	.2					4	4							
85										.2	.6	.2						9	9							
83										.4	.7	.1						10	10							
81							.1		.1	.2	.4	.5	.1					12	12							
79							.1	.1	.2	1.0	.8	.2						21	21							
77								.7	1.4	.8	.4	.1						29	29							
75								1.1	1.2	1.0	.8	.5	.2					40	40							
73						.1	.1	1.0	1.2	1.3	.4	.2						36	36							
71						.1	1.7	1.1	2.0	1.6	.8	.2						63	63							
69			.1		.4	1.7	1.4	1.4	1.2	.2								56	56	1						
67				.2	1.7	2.0	2.0	1.8	.6	.1	.1							72	72	6						
65		.1	.2	.7	2.5	1.8	1.7	1.3	.4									73	73	22						
63		.1	.5	1.4	3.1	2.2	1.3	1.0	.1									81	81	37	2					
61		.1	1.7	2.2	3.1	1.3	1.2	.5	.1									79	79	72	1					
59	.1	.6	1.2	3.2	2.4	1.6	.7	.5										86	86	99	10					
57	.1	.8	3.7	2.6	1.6	1.7	.4	.2										87	87	128	16					
55	.1	.7	.7	.7	1.3	.8												37	37	118	52					
53		.6	1.3	1.7	.5		.2											30	30	146	85					
51		.1	.1	.4														5	5	87	88					
49			.2	.1														3	3	65	132					
47																				37	92					
45																				16	89					
43																				2	75					
41																				1	56					
39																					51					
37																					36					
35																					20					
33																					18					
31																					5					
29																					2					
27																					4					
Element (X)	Σ X'		Σ X		X		Σ X		X		Σ X		X		Σ X		X		Σ X		X		Σ X		X	
Rel. Hum.																										
Dry Bulb																										
Wet Bulb																										
Dew Point																										

USAFETAC FORM 0-26-5 (OL A) REVISIONS PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE

## PSYCHROMETRIC SUMMARY

724835  
STATION

MATHER AFB CA

73-81

OCT

PAGE 2 1800-2000  
HOURS (L. S. T.)

[illegible]

## PSYCHROMETRIC SUMMARY

YEARS

OCT  
MONTH

HOURS (L. S. T.)

[illegible]

## PSYCHROMETRIC SUMMARY

**YEARS**

PAGE 1

ALL

HOURS (L, S, T,)

[illegible]

## PSYCHROMETRIC SUMMARY

OCT  
MONTH

ALL  
HOURS (L. S. T.)

[illegible]

## PSYCHROMETRIC SUMMARY

NOV  
MONTH

PAGE 1 0000-0200  
HOURS (L. S. T.)

Temp. (F)	WET BULB TEMPERATURE DEPRESSION (F)																					TOTAL		TOTAL		
	0	1-2	3-4	5-6	7-8	9-10	11-12	13-14	15-16	17-18	19-20	21-22	23-24	25-26	27-28	29-30	≥ 31	D.B./W.B.	Dry Bulb	Wet Bulb	Dew Point					
61		.2																2	2							
59		.4		.1														4	4	2						
57		2.6	1.7	.2														37	37	8	2					
55	.4	3.5	1.9	.1		.1												48	48	24	24					
53	.2	4.5	4.7	1.1	.6	.1												91	91	52	28					
51	.2	5.3	3.6	1.0	1.2													92	92	62	50					
49	.6	6.6	3.2	1.5	.7			.1										103	103	87	56					
47	.6	7.3	3.1	1.3	.9													104	104	106	89					
45	.4	6.3	3.6	.6	.2	.1	.2											93	93	100	85					
43	.2	5.2	1.5	.9	.4	.1												67	67	111	70					
41	.5	5.1	2.7	.6	.2													74	74	68	81					
39	.1	3.1	1.5	.1														39	39	61	88					
37	.1	1.9	1.0	.1														25	25	63	51					
35	.1	1.7	1.4	.4														23	23	29	56					
33		.1	.4															4	4	22	36					
31			.1															1	1	8	39					
29																				4	13					
27																					18					
25																					8					
21																					5					
19																					5					
17																					2					
15																					1					
13																										
11																										
TOTAL	3.5	53.0	30.4	7.8	4.3	.5	.2	.1										807	807	807	807					

Element (X)	Σx'	Σx	Σ	Σ <sub>2</sub>	No. Obs.	Mean No. of Hours with Temperature						Total
Rel. Hum.	5476656	65734	81.5	12.319	807	≥ 0 F	≥ 32 F	≥ 67 F	≥ 73 F	≥ 80 F	≥ 93 F	
Dry Bulb	1862848	38498	47.7	5.712	807		.1					90
Wet Bulb	1666235	36361	45.1	5.885	807		1.3					90
Dew Point	1473066	33936	42.1	7.554	807		10.1					90



## PSYCHROMETRIC SUMMARY

**YEARS**

NOV  
MONTH

PAGE 1 0300-0500  
HOURS (L. S. T.)

[illegible]

## PSYCHROMETRIC SUMMARY

724835  
STATION

NATHER AFB CA

73-61

YEARS

NOV  
MONTH

PAGE 1

0600-0800

HOURS (L, S, T.)

[illegible]

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

# PSYCHROMETRIC SUMMARY

724835 MATHER AFB CA 73-81 NOV  
STATION STATION NAME YEARS MONTH

PAGE 1 0900-1100  
HOURS (L. S. T.)

Temp. (F)	WET BULB TEMPERATURE DEPRESSION (F)																					TOTAL	TOTAL		
	0	1-2	3-4	5-6	7-8	9-10	11-12	13-14	15-16	17-18	19-20	21-22	23-24	25-26	27-28	29-30	≥ 31	D.B./W.B.	Dry Bulb	Wet Bulb	Dew Point				
4 / 73											.2							2		2					
4 / 71										.1								1		1					
4 / 69							.2		.5	.2	.1							9		9					
6 / 67					.2	.6	.2	.4	.4	.1								16		16					
6 / 65			.2	.1	.4	.4	.6	.2										16		16					
4 / 63			.2	1.2	.7	1.0	.7	.1										33		33					
4 / 61			.7	3.2	1.4	.6	.1	.4										52		52	3				
4 / 59		1.1	1.9	2.5	1.9	.7	.6	.1										70		70	8				
4 / 57		2.6	3.0	2.4	1.5	.6	.2											83		83	43				
5 / 55	.1	3.5	5.0	3.1	1.5	.6	.2	.1										114		114	89				
4 / 53	.1	3.3	3.2	1.5	.7	.4	.2											77		77	108				
2 / 51	.4	2.7	4.3	2.0	1.1	.6	.2	.2										88		88	115				
5 / 49	.2	3.1	4.7	1.1	1.5		.2											87		87	98				
5 / 47	.1	2.7	3.3	1.6	.9	.1												71		71	99				
4 / 45		1.7	1.5	.2	.1	.1												30		30	89				
4 / 43	.1	.9	1.1	.2	.4	.1												22		22	48				
2 / 41	.2	1.0	.7	.6														21		21	52				
4 / 39	.5	.1	.2	.1														8		8	24				
3 / 37	.4		.1	.1														5		5	17				
4 / 35		.2																2		2	11				
3 / 33																					2				
2 / 31																					1				
4 / 29																									
2 / 27																									
4 / 25																									
2 / 23																									
2 / 21																									
4 / 19																									
4 / 17																									
1 / 15																									
TOTAL	7.2	22.1	30.2	20.1	12.1	5.9	3.8	1.6	1.0	.4	.4							807		807	807				
																						807		807	
Element (X)	ΣX'		ΣX		Σ		Σ		Σ		Σ		Σ		Σ		Σ		Σ		Σ				
Rel. Hum.	4322027		57531		71.3		16.545		807		± 0 F		± 32 F		± 67 F		± 73 F		± 80 F		± 93 F				
Dry Bulb	2393578		43634		54.1		6.525		807						3.1		.2				90				
Wet Bulb	1975431		39685		49.2		5.443		807						.1						90				
Dew Point	1619412		35660		44.2		7.360		807				7.0								90				

FORM 0-26-5 (OLA) REVISIO PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE  
USAFETAC



## PSYCHROMETRIC SUMMARY

73-81

YEARS

NOV  
MONTH

PAGE 2 1200-1400  
HOURS (L. S. T.)

[illegible]

## PSYCHROMETRIC SUMMARY

724835	MATHER AFB CA
STATION	STATION NAME

73-81

YEARS

**NOV**  
**MONTH**

PAGE 1 1500-1700  
HOURS (L. S. T.)

[illegible]

## PSYCHROMETRIC SUMMARY

**YEARS**

NOV  
MONTH

PAGE 2 1500-1700  
HOURS (L. S. Y.)

Temp. (F)	WET BULB TEMPERATURE DEPRESSION (F)																		TOTAL	TOTAL		
	0	1-2	3-4	5-6	7-8	9-10	11-12	13-14	15-16	17-18	19-20	21-22	23-24	25-26	27-28	29-30	= 31	D.B./W.B.	Dry Bulb	Wet Bulb	Dew Point	
71 F	.1	7.6	14.4	15.7	15.9	14.4	12.8	9.2	4.2	3.7	1.0	.4	.5					807	807	807	807	

## PSYCHROMETRIC SUMMARY

NOV

HOURS (L. S. T.)

[illegible]



GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

# PSYCHROMETRIC SUMMARY

724835 MATHER AFB CA STATION NAME

73-81 YEARS

NOV MONTH

PAGE 1 2100-2300 HOURS (L. S. Y.)

Temp. (F)	WET BULB TEMPERATURE DEPRESSION (F)																				TOTAL	TOTAL		
	0	1-2	3-4	5-6	7-8	9-10	11-12	13-14	15-16	17-18	19-20	21-22	23-24	25-26	27-28	29-30	≥ 31	D.B./W.B.	Dry Bulb	Wet Bulb	Dew Point			
4 / 63			.2															2	2					
4 / 61		.2	.5				.1											7	7					
4 / 59		.5	.6	.1		.6	.1											16	16	5	2			
4 / 57	.1	3.6	2.5	1.1	.5	.5												67	67	14	6			
5 / 55	.2	5.2	3.1	.7	.5	.9												78	78	42	27			
4 / 53		4.7	5.2	2.5	1.1	.2		.1										112	112	70	44			
2 / 51		5.8	3.8	1.7	.9			.2										101	101	66	59			
5 / 49	.1	5.0	3.5	2.0	.6	.1	.1	.2										94	94	112	57			
4 / 47	.4	6.3	2.5	1.6	.6	.1												93	93	104	86			
4 / 45	.1	6.9	2.4	1.2	.6	.1												92	92	112	87			
4 / 43	.2	3.1	2.5	1.1	.5													60	60	86	74			
2 / 41	.2	3.3	1.0	.7														43	43	64	84			
4 / 39		1.2	.9	.6	.1													23	23	61	67			
3 / 37	.1	.5	.7	.2														13	13	36	67			
4 / 35		.4	.1	.1														5	5	19	41			
3 / 33				.1														1	1	10	26			
2 / 31																				4	33			
2 / 29																				2	11			
2 / 27																					10			
2 / 25																					10			
2 / 23																					2			
2 / 21																					3			
2 / 19																					5			
2 / 17																					2			
1 / 15																					2			
1 / 13																					1			
1 / 11																					1			
TOTAL	1.4	46.8	29.5	13.9	5.6	2.6	.4	.6										807	807	807	807			
																		807		807				

USAFETAC FORM 0-26-5 (O.L.A.) REVISION PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE

## PSYCHROMETRIC SUMMARY

**YEARS**

NOV

PAGE 1

ALL

HOURS L. S. T.

Temp. (F)	WET BULB TEMPERATURE DEPRESSION (F)																												TOTAL D.B./W.B.	TOTAL				
	0	1-2	3-4	5-6	7-8	9-10	11-12	13-14	15-16	17-18	19-20	21-22	23-24	25-26	27-28	29-30	>31	Dry Bulb	Wet Bulb	Dew Point														
70													.1																	6	6			
71												.1											.1							12	12			
72							.1	.1	.1	.1	.2	.2											.1							39	39			
73							.1	.1	.2	.1	.1	.1																		43	43			
74						.1	.1	.2	.2	.2	.1																			50	50			
75						.1	.2	.3	.2	.2	.1	.0																		76	76			
76				.1	.4	.3	.4	.3	.1	.1																				103	103			
77			.1	.4	.7	.5	.7	.2	.2	.0																				186	186		4	
78			.3	.6	.8	.7	.6	.3	.1																					218	218		8	
79		.2	.7	1.5	.9	.7	.4	.4	.0	.0																				299	299		54	
80	.1	.8	1.1	1.3	.7	.9	.4	.3	.2	.0																				360	360	159	14	
81	.2	2.1	2.7	1.2	1.1	.4	.3	.1	.1																					472	472	307	78	
82	.1	3.3	2.4	1.4	1.1	.5	.2	.2	.1																					596	596	509	189	
83	.2	3.2	3.3	1.3	.9	.4	.1	.1																						618	618	647	362	
84	.2	3.3	3.1	1.2	.7	.3	.1	.1																						579	579	609	514	
85	.3	3.8	2.7	1.4	.6	.1	.1	.1																						604	604	746	533	
86	.3	4.6	2.3	.9	.6	.1																								571	571	733	618	
87	.3	3.9	2.7	.7	.6	.1	.1																							469	469	692	682	
88	.3	3.3	1.3	.5	.2	.1																								368	368	550	553	
89	.6	2.7	.9	.4	.1	.1																								309	309	496	669	
90	.3	1.7	.7	.1																										184	184	342	586	
91	.4	1.1	.5	.1																										142	142	256	424	
92	.1	.8	.4	.1																											86	86	159	323
93	.1	.4	.4	.7																										57	57	115	252	
94		.1	.0																											5	5	40	281	
95	.1	.3																												4	4	27	117	
96																																	3	79
97																																		64
98																																		14
99																																		27
100																																		30
101																																		20
102																																		15
103																																		8
Element (X)	Z <sub>X'</sub>				Z <sub>X</sub>				Z				σ <sub>A</sub>				No. Obs.				Mean No. of Hours with Temperature													
Rel. Hum.																					≤ 0 F	≤ 32 F	≤ 67 F	≤ 73 F	≤ 80 F	≤ 93 F	Total							
Dry Bulb																																		
Wet Bulb																																		
Dew Point																																		

## PSYCHROMETRIC SUMMARY

724835      MATHER AFB CA  
STATION      STATION NAME

73-81

YEARS

NOV  
MONTH

PAGE 2

**ALL**

MONSIEUR L'ÉTAT

[illegible]

## PSYCHROMETRIC SUMMARY

**YEARS**

DEC  
MONTH

PAGE 1 0000-0200  
HOURS (L. S. T.)

[illegible]

## PSYCHROMETRIC SUMMARY

YEARS

DEC  
MONTH

HOURS (L, S, T)

[illegible]

## PSYCHROMETRIC SUMMARY

YEARS

DEC  
MONTH

PAGE 1 0600-0800  
HOURS (L. S. Y.)

[illegible]

## PSYCHROMETRIC SUMMARY

**YEARS**

DEC  
MONTH

PAGE 1 C900-1100  
HOURS (L. S. T.)

Temp. (F)	WET BULB TEMPERATURE DEPRESSION (F)																												TOTAL	TOTAL		
	0	1-2	3-4	5-6	7-8	9-10	11-12	13-14	15-16	17-18	19-20	21-22	23-24	25-26	27-28	29-30	> 31	O.B./W.B.	Dry Bulb	Wet Bulb	Dew Point											
4 / 63								.1										1	1													
1 / 59		.2	.6															7	7													
1 / 57	.2	1.1	.6	.5	.1	.1		.1										23	23	6	2											
5 / 55		1.8	1.6	1.1	.4	.1	.1											41	41	17	9											
4 / 53		1.8	2.5	1.9	.1	.6												50	50	25	13											
2 / 51	.1	3.8	3.9	1.0	.8	.4	.2											83	83	41	28											
5 / 49		5.9	3.5	2.0	1.0	.2	.1											106	106	61	35											
1 / 47	.4	8.6	1.9	2.5	.4	.2	.1											118	118	106	68											
4 / 45	1.1	8.6	2.7	1.7	.8	.2	.1											128	128	129	110											
4 / 43	.7	7.2	2.3	1.3	.6	.2												103	103	125	96											
2 / 41	1.2	3.1	2.7	.5	.2													59	59	112	109											
4 / 39	.8	3.9	1.8	.2	.2													51	51	68	71											
3 / 37	.4	3.1	.8		.1													37	37	64	58											
1 / 35	.5	1.2	.1	.1														16	16	46	55											
3- / 33		1.1	.2															11	11	20	65											
2 / 31		.4																3	3	13	54											
1 / 29																				4	20											
2 / 27																					17											
1 / 25																					12											
2 / 23																					3											
2 / 21																					2											
1 / 19																					4											
1 / 17																					1											
1 / 15																					4											
1 / 13																					1											
TOTAL	5.450	8.24	6.11	7.4	4.4	2.2	.7	.2										837	837	837	837											

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

# PSYCHROMETRIC SUMMARY

724835 WATHER AFB CA  
STATION STATION NAME

73-81

YEARS

DEC  
MONTH

PAGE 1 1200-1400  
HOURS (L. S. T.)

Temp. (F)	WET BULB TEMPERATURE DEPRESSION (F)																					TOTAL	TOTAL		
	0	1-2	3-4	5-6	7-8	9-10	11-12	13-14	15-16	17-18	19-20	21-22	23-24	25-26	27-28	29-30	≥31	D.B./W.B.	Dry Bulb	Wet Bulb	Dew Point				
6 / 65					.1		.1											2	2						
4 / 63				.1	.6	.6	.2	.1										14	14						
2 / 61			.7	1.6	1.0	.6		.1	.5									37	37						
/ 59		.5	1.4	1.8	1.2	.8	1.2	.6	.1									64	64	3					
/ 57		.7	1.3	2.3	2.0	1.7	.6	.7	.1									79	79	21	4				
5 / 55		1.6	1.4	3.3	3.1	2.0	.4	.1										100	100	39	12				
4 / 53		2.0	4.3	4.4	2.4	1.6	1.1	.2										134	134	54	15				
2 / 51		3.2	5.3	3.0	2.6	1.2	.6											133	133	74	40				
/ 49		4.4	3.5	1.9	1.4	.6	.1	.2										102	102	143	57				
/ 47	.6	4.8	1.2	.7	.7	.2	.4											72	72	163	97				
4 / 45	.1	3.3	1.0	.1		.1	.1											40	40	146	105				
4 / 43	.1	1.8	.2	.4		.2												23	23	79	103				
2 / 41	.5	.4	.4															10	10	58	96				
/ 39	.2	1.4	.6															19	19	17	64				
5 / 37		.5	.1															5	5	22	52				
/ 35		.4																3	3	12	49				
3 / 33																				6	55				
2 / 31																					30				
/ 29																					12				
/ 27																					15				
/ 25																					7				
2 / 23																					7				
2 / 21																					4				
/ 19																					5				
1 / 17																					1				
1 / 15																					2				
1 / 13																					1				
1 / 11																					4				
TOTAL	1.6	25.0	21.4	19.6	15.2	9.7	4.8	2.2	.7									837	837	837	837				
</																									

USAFETAC FORM 026-5 (O.L.A.) REVISION PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE



GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

# PSYCHROMETRIC SUMMARY

724835 STATION MATHER AFB CA 73-81 YEARS DEC MONTH

PAGE 1 1500-1700 HOURS (L. S. T.)

Temp. (F)	WET BULB TEMPERATURE DEPRESSION (F)																				TOTAL	TOTAL		
	0	1-2	3-4	5-6	7-8	9-10	11-12	13-14	15-16	17-18	19-20	21-22	23-24	25-26	27-28	29-30	≥31	D.B./W.B.	Dry Bulb	Wet Bulb	Dew Point			
6 / 65					.1		.1											2	2					
4 / 63					.5	.6	.1	.2										12	12					
2 / 61			.2	1.1	1.8	1.1	.4	.5	.5									46	46					
0 / 59			1.2	1.3	1.6	.7	1.3	.5	.1									56	56					
2 / 57	.2	.7	1.7	2.3	2.6	1.4	.8	.2										84	84	9	2			
5 / 55	.1	1.4	2.3	2.3	2.5	2.8	1.7	.2	.1									106	106	38	2			
4 / 53		2.3	3.4	4.9	2.7	2.7	.6		.1									128	128	63	18			
2 / 51	.1	4.1	5.7	2.4	2.6	1.1	.6											139	139	85	40			
5 / 49	.1	4.2	4.7	2.3	2.2	.4	.4	.2										114	114	146	62			
2 / 47		4.9	1.2	1.1	.5	.5	.1	.1										70	70	161	95			
4 / 45		1.9	1.2	.2	.1	.2	.2											33	33	142	105			
4 / 43		1.3	.4	.1		.2												14	14	77	108			
2 / 41		.6	.5	.1														10	10	58	82			
4 / 39		.4	.8															10	10	19	64			
3 / 37		1.1	.2															11	11	17	45			
3 / 35																				16	65			
3 / 33																				4	51			
2 / 31																					37			
2 / 29																					12			
2 / 27																					13			
2 / 25																					11			
2 / 23																					4			
2 / 21																					7			
2 / 17																					2			
1 / 15																					2			
2 / 13																					2			
1 / 11																					5			
1 / 9																					1			
TOTAL	.622	.522	.818	.116	.511	.0	5.6	2.0	.8									835	835	835	835			

USAFETAC FORM 44 0-26-5 (OL A) REVERSED MIRROR EDITIONS OF THIS FORM ARE OBSOLETE

## PSYCHROMETRIC SUMMARY

724835

MATHUR AFB CA

73-81

DEC

PAGE 1 1800-2000  
HOURS (L. S. T.)

[illegible]

## PSYCHROMETRIC SUMMARY

YEARS

DEC  
MONTH

HOURS (L, S, T.)

**USAFETAC**  
FORM  
#1-A  
**0-26-5 (QLA)**  
REVISED PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE

## PSYCHROMETRIC SUMMARY

73-81

YEARS

DEC

PAGE 1

411

ALL  
HOURS (L. S. T.)

[illegible]

## PSYCHROMETRIC SUMMARY

YEARS

ALL  
MONTH

ALL  
HOURS (L. S. T.)

[illegible]

## PSYCHROMETRIC SUMMARY

YEARS

ALL  
MONTH

ALL

**HOURS (L. S. T.)**

Temp. (F)	WET BULB TEMPERATURE DEPRESSION (F)																			TOTAL D.B./W.B.	TOTAL		
	0	1-2	3-4	5-6	7-8	9-10	11-12	13-14	15-16	17-18	19-20	21-22	23-24	25-26	27-28	29-30	≥ 31	Dry Bulb	Wet Bulb		Dew Point		
4 / 43	.2	2.3	.2	.2	.1	.0	.0											2854	2854	4188	6846		
2 / 41	.3	1.7	.6	.2	.2	.0												2221	2221	3638	6386		
4 / 39	.3	1.3	.4	.1	.1	.0												1739	1739	2702	5129		
3 / 37	.2	1.0	.2	.0	.	.0												1207	1207	1891	3924		
2 / 35	.1	.6	.2	.0	.													759	759	1291	3162		
3 / 33	.	.4	.1	.0														471	471	817	2200		
2 / 31	.	.3	.0	.0														282	282	487	2051		
1 / 29	.	.1	.0															111	111	283	1038		
1 / 27	.	.0	.0															42	42	90	903		
1 / 25	.	.0																5	5	47	562		
1 / 23	.																	1	1	2	223		
2 / 21																					185		
1 / 19																					136		
1 / 17																					63		
1 / 15																					42		
1 / 13																					29		
1 / 11																					21		
1 / 9																					2		
TOTAL	.0	21.3	17.2	12.0	9.8	7.9	6.4	5.1	4.1	3.4	2.8	2.4	1.7	1.4	1.1	.8	.7	78836	78837		78836		
																		78836		78836			

GLOBAL CLIMATOLOGY BRANCH  
AFETAC  
AF WEATHER SERVICE/MAC

## MEANS AND STANDARD DEVIATIONS

DRY-BULB TEMPERATURES DEG F FROM HOURLY OBSERVATIONS

24835 MATHER AFB CA

73-81

STATION		STATION NAME												YEARS											
HRS IL ST		JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL											
- 1	MEAN	42.6	45.1	45.0	50.1	55.2	62.6	65.3	64.6	62.3	55.6	47.7	42.7	53.7											
	S D	6.165	4.941	4.937	4.588	5.858	6.268	5.791	5.228	4.905	5.732	5.712	6.179	9.878											
	TOTAL OBS	837	761	837	810	837	809	837	837	809	837	807	837	9855											
- 1	MEAN	41.6	44.5	46.1	47.8	53.5	59.4	62.2	61.6	59.6	53.1	46.0	41.7	51.5											
	S D	6.573	5.283	5.399	4.647	5.432	5.448	5.286	4.695	4.550	5.571	6.201	6.617	9.256											
	TOTAL OBS	837	762	837	810	837	810	837	837	810	837	807	837	9858											
- 1	MEAN	41.4	44.4	46.8	50.6	57.9	64.1	65.8	63.9	61.4	54.2	45.8	41.2	53.2											
	S D	6.882	5.439	5.428	5.524	6.711	6.930	6.290	5.604	5.323	6.191	6.249	6.850	10.812											
	TOTAL OBS	837	759	837	810	837	810	837	837	810	837	807	837	9854											
- 1	MEAN	45.7	51.2	54.5	60.5	68.8	75.7	78.0	75.7	73.4	65.8	54.1	46.7	62.6											
	S D	6.131	4.941	5.207	6.362	8.150	8.442	7.553	7.297	7.187	7.670	6.525	5.540	13.289											
	TOTAL OBS	837	762	837	810	837	810	837	837	810	835	807	837	9856											
1 - 14	MEAN	50.0	57.1	60.1	66.9	76.7	84.6	88.2	85.9	83.0	74.1	60.3	52.5	70.1											
	S D	6.000	5.168	5.352	7.824	8.983	9.552	7.742	7.791	7.848	8.526	6.949	5.374	15.048											
	TOTAL OBS	837	762	837	810	837	810	836	837	809	836	807	837	9855											
- 17	MEAN	51.7	58.1	61.1	68.2	78.6	87.7	91.4	88.9	85.3	75.1	60.6	52.8	71.7											
	S D	5.917	5.483	6.401	8.639	9.479	8.661	8.070	7.934	8.353	9.251	7.151	5.166	15.962											
	TOTAL OBS	835	762	837	809	837	810	836	837	809	837	807	835	9851											
- 2	MEAN	47.4	52.7	56.0	61.9	70.9	79.2	83.0	80.1	76.0	65.9	53.8	47.0	64.6											
	S D	5.623	4.677	5.729	7.721	9.655	9.375	9.177	8.539	8.191	7.904	5.760	4.959	14.697											
	TOTAL OBS	837	762	837	810	837	809	837	837	810	837	807	833	9853											
1-23	MEAN	44.4	48.5	50.8	54.2	60.9	67.8	70.6	69.0	66.6	59.0	49.7	43.9	57.2											
	S D	5.772	4.422	4.686	5.176	7.022	7.390	6.577	5.950	5.780	5.975	5.482	5.542	11.103											
	TOTAL OBS	837	762	837	810	837	810	837	837	810	837	807	834	9855											
ALL HOURS	MEAN	45.6	51.3	52.9	57.5	65.4	72.5	75.6	73.7	71.0	62.9	52.2	46.1	60.5											
	S D	7.201	7.134	7.778	9.832	11.918	12.500	12.676	11.931	11.480	10.894	8.385	7.223	14.691											
	TOTAL OBS	6694	6092	6696	6478	6696	6478	6694	6696	6477	6693	6456	6687	78837											

CLIMATE CLIMATOLOGY BRANCH  
USAFETAC  
WEATHER SERVICE/MAC

## MEANS AND STANDARD DEVIATIONS

WET-BULB TEMPERATURES DEG F FROM HOURLY OBSERVATIONS

835 WATHER AFB CA

73-21

STATION

STATION NAME

YEARS

HRS. IN ST.	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL
MEAN	41.1	43.9	45.1	46.3	51.5	54.2	56.9	57.1	56.1	50.7	45.1	40.8	49.7
S D	6.158	4.926	5.184	4.171	4.362	4.075	3.742	3.257	3.518	4.833	5.885	6.246	7.538
TOTAL OBS	837	761	837	810	837	809	837	837	809	837	807	837	9854
MEAN	41.3	42.7	43.6	44.6	49.7	52.6	55.3	55.6	54.6	49.2	43.8	40.1	47.6
S D	6.442	5.251	5.547	4.414	4.273	4.016	3.673	3.256	3.578	4.974	6.233	6.658	7.507
TOTAL OBS	837	762	837	810	837	810	837	837	810	837	807	837	9858
MEAN	39.9	42.5	44.1	46.5	51.3	55.2	57.4	57.1	55.8	50.0	43.7	39.7	48.6
S D	6.699	5.354	5.462	4.727	4.528	4.290	3.677	3.280	3.602	5.175	6.194	6.813	8.234
TOTAL OBS	837	759	837	809	837	810	837	837	810	837	807	837	9854
MEAN	43.4	47.3	49.1	51.9	56.5	60.4	63.0	62.4	61.1	56.2	49.2	43.8	53.7
S D	5.744	4.366	4.588	4.518	4.866	4.265	3.745	3.326	3.510	4.444	5.443	5.385	8.273
TOTAL OBS	837	762	837	810	837	810	837	837	810	835	807	837	9856
MEAN	46.5	50.5	51.7	54.7	59.5	63.4	66.6	66.1	64.6	59.2	52.3	47.4	56.9
S D	5.24	3.999	4.644	4.866	5.376	4.362	3.761	3.559	4.026	4.436	5.178	4.686	8.344
TOTAL OBS	837	762	837	810	837	810	836	837	809	836	807	837	9855
MEAN	47.1	50.9	51.7	54.8	59.8	63.7	66.9	66.6	64.8	59.2	52.2	47.4	57.1
S D	5.192	4.014	4.853	5.022	5.441	4.411	3.728	3.772	4.266	4.803	5.381	4.550	8.441
TOTAL OBS	837	762	837	809	837	810	836	837	809	837	807	835	9851
MEAN	44.5	48.3	49.5	52.5	57.3	61.2	64.2	63.6	61.7	55.7	48.9	43.9	54.3
S D	5.475	4.091	4.882	4.826	5.301	4.667	3.989	3.743	4.133	4.726	5.442	5.153	8.494
TOTAL OBS	837	762	837	810	837	809	837	837	810	837	807	833	9853
MEAN	42.4	45.7	46.8	48.9	53.1	56.8	59.6	59.3	58.2	52.7	46.5	41.8	51.0
S D	5.799	4.421	4.255	4.233	4.696	4.439	3.844	3.379	3.576	4.623	5.674	5.743	7.797
TOTAL OBS	837	762	837	810	837	810	837	837	810	837	807	834	9855
ALL HOURS	MEAN	43.1	46.5	47.7	50.0	54.6	58.4	61.3	61.0	59.6	54.1	47.7	52.3
S D	6.400	5.535	5.869	5.921	6.274	5.892	5.677	5.278	5.321	6.066	6.560	6.382	8.814
TOTAL OBS	6693	6192	6696	6478	6696	6478	6694	6696	6477	6693	6456	6627	78836



AL CLIMATOLOGY BRANCH  
AFETAC  
WEATHER SERVICE/MAC

## MEANS AND STANDARD DEVIATIONS

DEW-POINT TEMPERATURES DEG F FROM HOURLY OBSERVATIONS

24835 MATHER AFB CA

73-81

STATION	STATION NAME												YEARS
HRS LST	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL
MEAN	38.9	41.5	41.6	42.1	45.0	46.8	50.0	51.0	50.9	46.0	42.1	38.5	44.5
S D	7.174	5.840	7.012	5.930	5.181	5.683	5.003	4.741	4.899	6.323	7.554	7.685	7.500
TOTAL OBS	836	761	837	811	837	809	837	837	809	837	807	837	9854
MEAN	38.3	41.5	41.7	41.0	44.1	46.4	49.6	50.7	50.4	45.3	41.2	38.0	43.9
S D	7.283	6.059	7.037	6.012	5.185	5.704	5.090	4.726	4.801	6.221	7.481	7.890	7.619
TOTAL OBS	837	762	837	810	837	810	837	837	810	837	807	837	9858
MEAN	37.9	41.3	41.7	42.0	45.2	47.6	50.8	51.8	51.2	46.0	41.2	37.6	44.4
S D	7.478	6.172	6.804	6.253	5.146	5.454	4.795	4.180	4.538	6.130	7.311	7.848	7.840
TOTAL OBS	837	759	837	809	837	810	837	837	810	837	807	837	9854
MEAN	40.4	43.2	43.4	43.6	46.1	48.7	52.5	53.2	52.3	48.1	44.2	40.5	46.4
S D	6.915	5.660	6.841	6.888	6.102	5.466	4.769	3.805	4.712	5.661	7.360	7.132	7.864
TOTAL OBS	837	762	837	810	837	810	837	837	810	835	807	837	9856
MEAN	41.1	44.1	43.3	43.4	45.6	48.1	52.7	53.4	52.0	47.3	44.6	41.6	46.5
S D	7.078	5.878	7.774	7.867	7.187	6.569	5.600	4.816	6.014	6.049	7.907	7.500	7.877
TOTAL OBS	837	762	837	810	837	810	836	837	809	836	807	837	9855
MEAN	41.1	43.8	42.3	42.5	44.4	46.5	50.8	51.9	50.6	46.5	44.0	41.3	45.6
S D	7.372	6.128	8.536	8.173	7.713	7.228	6.450	6.199	6.847	6.706	8.332	7.582	8.149
TOTAL OBS	835	762	837	809	837	810	836	837	809	837	807	835	9851
MEAN	41.1	43.9	42.7	43.4	45.9	47.3	51.2	52.1	51.4	46.9	43.7	40.2	45.8
S D	7.056	5.618	8.076	7.454	6.782	6.984	5.744	5.036	5.855	6.316	8.019	7.322	7.801
TOTAL OBS	837	762	837	810	837	809	837	837	810	837	807	833	9853
MEAN	39.9	42.7	42.3	43.5	46.1	47.5	51.3	51.9	51.5	46.8	42.9	39.1	45.5
S D	7.075	5.654	7.443	6.212	5.356	6.024	4.826	4.390	4.868	6.257	7.749	7.433	7.541
TOTAL OBS	837	762	837	810	837	810	837	837	810	837	807	834	9855
ALL HOURS	41.1	42.5	42.2	42.7	45.3	47.4	51.1	52.0	51.3	46.6	43.0	39.6	45.3
S D	7.314	6.140	7.517	6.940	6.195	6.215	5.409	4.860	5.402	6.264	7.819	7.684	7.778
TOTAL OBS	6693	6092	6696	6478	6696	6478	6694	6696	6477	6693	6456	6687	78836

1

## RELATIVE HUMIDITY

1ATHER AFB CA

STATION NAME

73-81

PERIOD

JAN  
MONT

**CUMULATIVE PERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)**

12

FORM  
JUL 64

0-87-5 (OL A)

## RELATIVE HUMIDITY

FEB  
MONTH

MONTH	HOURS (L.S.T.)	PERCENTAGE FREQUENCY OF RELATIVE HUMIDITY GREATER THAN									MEAN RELATIVE HUMIDITY	TOTAL NO. OF OBS.
		10%	20%	30%	40%	50%	60%	70%	80%	90%		
FEB	0-02	100.0	100.0	100.0	99.9	98.9	98.0	93.3	73.5	27.8	84.3	761
	3-05	100.0	100.0	100.0	100.0	99.9	98.8	94.4	80.4	26.5	85.7	762
	6-08	100.0	100.0	100.0	100.0	99.9	98.4	95.0	77.3	29.0	95.8	759
	9-11	100.0	100.0	100.0	99.2	95.5	86.4	68.0	36.0	10.4	75.3	762
	12-14	100.0	100.0	99.5	94.4	79.7	53.3	32.5	14.7	4.5	63.6	762
	15-17	100.0	100.0	98.7	90.7	72.3	47.1	28.5	14.6	3.5	61.1	762
	18-20	100.0	100.0	99.9	98.3	94.1	82.7	59.8	30.1	8.4	73.0	762
	21-23	100.0	100.0	100.0	99.2	98.7	94.6	86.1	56.7	12.9	80.9	762
TOTALS		100.0	100.0	99.8	97.7	92.4	82.4	69.7	47.9	14.5	76.2	6092

FORM  
N.M. 44

0-87.5 (OL A)

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIF WEATHER SERVICE/MAC

## RELATIVE HUMIDITY

724835  
STATION

MATHER AFB CA

STATION NAME

73-81

PERIOD

MAR  
MONTH

### CUMULATIVE PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

MONTH	HOURS (L.S.T.)	PERCENTAGE FREQUENCY OF RELATIVE HUMIDITY GREATER THAN									MEAN RELATIVE HUMIDITY	TOTAL NO. OF OBS.
		10%	20%	30%	40%	50%	60%	70%	80%	90%		
MAR	00-02	100.0	100.0	99.6	98.4	95.8	91.3	83.5	51.3	14.9	79.3	837
	03-05	100.0	100.0	99.8	99.5	97.8	94.0	87.9	62.0	21.9	81.8	837
	06-08	100.0	100.0	100.0	99.6	98.2	93.4	84.6	58.3	19.0	80.9	837
	09-11	100.0	100.0	98.8	93.8	85.9	70.3	46.8	18.3	4.5	67.7	837
	12-14	100.0	99.3	93.2	81.1	62.8	40.3	20.3	6.8	1.7	56.3	837
	15-17	100.0	98.8	86.3	71.6	53.4	34.5	17.9	8.1	2.3	53.1	837
	18-20	100.0	99.9	96.4	85.7	74.7	59.3	39.2	16.8	3.8	63.6	837
	21-23	100.0	100.0	98.7	95.8	90.0	83.4	70.0	35.7	9.0	74.1	837
TOTALS		100.0	99.8	98.6	90.7	82.3	70.8	56.3	32.2	9.6	69.6	6696

USAFETAC

FORM  
JUL 64

0-87-5 (OL A)

1  
GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

## RELATIVE HUMIDITY

724835  
STATION

MATHER AFB CA  
STATION NAME

73-81

PERIOD

APR  
MONTH

### CUMULATIVE PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

MONTH	HOURS (LST)	PERCENTAGE FREQUENCY OF RELATIVE HUMIDITY GREATER THAN									MEAN RELATIVE HUMIDITY	TOTAL NO. OF OBS.
		10%	20%	30%	40%	50%	60%	70%	80%	90%		
APR	0-02	100.0	100.0	98.9	97.5	94.1	86.2	73.5	37.9	6.9	75.2	810
	3-05	100.0	100.0	99.6	98.3	95.6	89.8	80.2	49.9	10.5	78.2	810
	6-08	100.0	100.0	99.4	97.2	91.2	83.1	67.9	35.4	5.7	73.7	809
	9-11	100.0	98.9	93.5	84.6	65.6	39.1	18.1	4.8	.6	56.1	810
	12-14	100.0	94.0	82.0	63.1	34.2	14.0	7.8	4.0	1.0	45.5	810
	15-17	100.0	92.1	75.4	49.7	27.3	13.7	9.6	4.2	1.1	42.8	809
	18-20	100.0	97.0	89.0	75.8	57.4	37.9	18.3	5.6	1.1	53.9	810
	21-23	100.0	99.9	98.3	94.7	87.3	75.6	52.5	19.0	2.3	68.8	810
TOTALS		100.0	97.7	92.0	82.2	69.1	54.9	41.0	20.1	3.7	61.8	6478

1 GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIF WEATHER SERVICE/MAC

# RELATIVE HUMIDITY

124835  
STATION

MATHER AFB CA  
STATION NAME

73-81  
PERIOD

MAY  
MONTH

## CUMULATIVE PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

MONTH	HOURS (L.S.T.)	PERCENTAGE FREQUENCY OF RELATIVE HUMIDITY GREATER THAN									MEAN RELATIVE HUMIDITY	TOTAL NO. OF OBS.
		10%	20%	30%	40%	50%	60%	70%	80%	90%		
MAY	00-02	100.0	100.0	99.3	96.4	90.1	70.8	44.9	12.3	.5	67.3	837
	03-05	100.0	100.0	99.8	97.5	93.7	82.6	58.7	23.5	2.0	71.6	837
	06-08	100.0	100.0	99.3	94.1	83.5	62.4	36.2	9.7	.6	64.3	837
	09-11	100.0	98.6	87.9	65.5	34.8	11.1	3.2	.6	.2	46.0	837
	12-14	100.0	91.4	63.8	25.9	6.5	2.7	1.4	.7	.1	34.9	837
	15-17	100.0	82.4	49.5	19.7	5.9	2.4	.7	.5	.1	31.7	837
	18-20	100.0	94.1	78.3	58.1	31.9	12.9	4.7	.6		43.7	837
	21-23	100.0	100.0	98.0	90.7	76.5	50.9	22.5	3.3	.1	59.8	837
TOTALS		100.0	95.8	84.5	68.5	52.9	37.0	21.5	6.4	.5	52.4	6696

## RELATIVE HUMIDITY

JUN  
MONTH

MONTH	HOURS (L.S.T.)	PERCENTAGE FREQUENCY OF RELATIVE HUMIDITY GREATER THAN									MEAN RELATIVE HUMIDITY	TOTAL NO. OF OBS.
		10%	20%	30%	40%	50%	60%	70%	80%	90%		
JUN	00-02	100.0	99.6	96.3	90.5	68.7	43.3	22.1	5.4	.1	58.3	809
	03-05	100.0	100.0	98.3	95.1	79.8	57.3	35.8	10.1	.5	63.6	810
	06-08	100.0	99.9	96.8	86.5	65.3	39.6	19.3	3.7	.1	56.9	810
	09-11	100.0	95.8	77.9	48.5	20.1	4.8	.2			40.5	810
	12-14	99.6	80.6	41.6	14.8	3.1	.1				29.7	810
	15-17	99.3	67.3	28.0	9.3	1.4					26.2	810
	18-20	99.9	85.7	60.2	33.3	12.7	2.8	.2			35.0	809
	21-23	100.0	98.6	91.5	77.5	47.2	23.3	7.2	.6		50.4	810
TOTALS		99.9	90.9	73.8	56.9	37.3	21.4	10.6	2.5	.1	45.1	6478

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

# RELATIVE HUMIDITY

724835  
STATION

MATHER AFB CA  
STATION NAME

73-81  
PERIOD

JUL  
MONTH

## CUMULATIVE PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

MONTH	HOURS (LST.)	PERCENTAGE FREQUENCY OF RELATIVE HUMIDITY GREATER THAN									MEAN RELATIVE HUMIDITY	TOTAL NO. OF OBS.
		10%	20%	30%	40%	50%	60%	70%	80%	90%		
JUL	0-02	100.0	100.0	98.3	91.6	73.8	43.8	22.0	5.0	.2	59.3	837
	03-05	100.0	100.0	98.8	94.7	84.2	62.1	37.8	11.9	.8	65.0	837
	06-08	100.0	99.8	97.7	90.2	74.6	51.0	23.9	5.7	.6	60.2	837
	09-11	100.0	98.8	83.8	55.2	24.4	7.3	1.6	1.3	.1	42.9	837
	12-14	100.0	88.6	46.2	14.2	2.8	1.7	.8	.7	.1	31.2	836
	15-17	99.2	67.7	27.8	8.7	2.2	1.4	1.1	.4	.1	26.7	836
	18-20	99.8	87.2	62.6	32.5	13.0	3.0	1.4	.7	.1	35.6	837
	21-23	100.0	100.0	95.7	81.0	49.8	24.4	8.0	1.0	.7	52.0	837
TOTALS		99.9	92.8	76.5	58.5	40.6	24.3	12.1	3.3	.3	46.6	6694

USAFETAC

FORM  
JUL 64

0-87-5 (DL A)



GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

## RELATIVE HUMIDITY

72-835  
STATION

MATHER AFB CA

STATION NAME

73-81

PERIOD

AUG  
MONTH

### CUMULATIVE PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

MONTH	HOURS (LST)	PERCENTAGE FREQUENCY OF RELATIVE HUMIDITY GREATER THAN									MEAN RELATIVE HUMIDITY	TOTAL NO. OF OBS.
		10%	20%	30%	40%	50%	60%	70%	80%	90%		
AUG	00-02	100.0	100.0	98.8	94.4	77.5	56.3	35.2	7.6	.7	62.9	837
	03-05	100.0	100.0	99.2	98.1	88.4	70.1	49.6	21.6	2.5	68.9	837
	06-08	100.0	100.0	99.5	95.5	85.1	65.4	41.0	14.7	1.9	66.4	837
	09-11	100.0	99.6	91.3	67.6	40.6	13.5	2.5	.7	.2	47.0	837
	12-14	100.0	93.3	59.7	24.7	5.0	1.6	.7	.7	.2	34.2	837
	15-17	100.0	80.9	43.7	11.2	2.9	.8	.7	.6		29.8	837
	18-20	100.0	94.1	75.4	46.1	20.9	5.3	1.7	1.0		39.9	837
	21-23	100.0	100.0	98.4	87.2	65.1	37.0	11.0	1.8	.2	55.9	837
TOTALS		100.0	96.0	83.3	65.6	48.2	31.3	17.8	6.1	.7	50.6	6696

USAFETAC

FORM  
AA 64

0-87-5 (OL A)



1

## RELATIVE HUMIDITY

STATION NAME

PERIOD

**MONTH**

**CUMULATIVE PERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)**

MONTH	HOURS (L.S.T.)	PERCENTAGE FREQUENCY OF RELATIVE HUMIDITY GREATER THAN									MEAN RELATIVE HUMIDITY	TOTAL NO. OF OBS.
		10%	20%	30%	40%	50%	60%	70%	80%	90%		
JULY	00-02	100.0	100.0	99.8	98.4	89.6	74.2	57.9	30.7	6.5	71.6	837
	03-05	100.0	100.0	100.0	99.5	95.2	82.8	68.2	44.1	10.4	75.8	837
	06-08	100.0	100.0	100.0	99.5	93.0	82.4	68.0	37.8	10.3	74.9	837
	09-11	100.0	99.9	95.0	78.9	59.5	36.0	17.2	5.4	1.8	55.2	835
	12-14	100.0	96.8	73.9	46.2	20.3	7.1	3.8	2.3	1.0	40.9	836
	15-17	100.0	93.5	65.9	38.7	17.4	8.7	4.8	2.0	.6	38.8	837
	18-20	100.0	99.9	92.4	73.0	53.0	31.5	15.2	5.6	1.3	53.0	837
	21-23	100.0	100.0	99.8	93.9	79.8	64.5	41.8	15.4	2.6	65.8	837
TOTALS		100.0	98.8	90.9	78.5	63.5	48.4	34.6	17.9	4.3	59.5	6693

FORM  
JUL 64

0-87-5 (OL A)

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AT: WEATHER SERVICE/MAC

# RELATIVE HUMIDITY

724835  
STATION

MATHEP AFB CA  
STATION NAME

73-81  
PERIOD

NOV  
MONTH

## CUMULATIVE PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

MONTH	HOURS (LST)	PERCENTAGE FREQUENCY OF RELATIVE HUMIDITY GREATER THAN									MEAN RELATIVE HUMIDITY	TOTAL NO OF OBS.
		10%	20%	30%	40%	50%	60%	70%	80%	90%		
NOV	00-02	100.0	100.0	99.6	99.4	97.6	92.6	82.8	61.0	21.9	81.5	807
	03-05	100.0	100.0	99.8	99.4	98.9	95.0	89.1	68.0	29.1	83.8	807
	06-08	100.0	100.0	100.0	99.3	98.9	96.4	89.5	72.1	31.5	84.5	807
	09-11	100.0	100.0	98.6	94.5	87.5	75.1	57.5	30.5	11.0	71.3	807
	12-14	100.0	99.6	93.4	84.1	66.8	45.5	26.4	11.6	3.0	58.9	807
	15-17	100.0	99.3	92.4	80.7	61.8	44.1	26.6	10.9	3.1	57.5	807
	18-20	100.0	100.0	98.6	94.4	86.5	73.6	58.2	30.7	7.4	70.6	807
	21-23	100.0	100.0	99.4	98.9	94.7	87.1	75.8	54.3	15.1	78.3	807
TOTALS		100.0	99.9	97.7	93.8	86.6	76.2	63.2	42.4	15.3	73.3	6456

USAFETAC

FORM  
JUL 64

0-87-5 (OL A)

1

## RELATIVE HUMIDITY

NATHER AFB CA

STATION NAME

73-81

PERIOD

DEC  
MON

CUMULATIVE PERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)

MONTH	HOURS (L.S.T.)	PERCENTAGE FREQUENCY OF RELATIVE HUMIDITY GREATER THAN									MEAN RELATIVE HUMIDITY	TOTAL NO. OF OBS.
		10%	20%	30%	40%	50%	60%	70%	80%	90%		
DEC	1-02	100.7	100.0	99.6	98.7	97.1	95.8	91.2	82.0	37.3	85.7	837
	3-05	100.0	100.0	99.6	99.4	98.2	97.0	92.7	84.0	41.1	87.0	837
	06-08	100.0	100.0	100.0	99.5	99.0	97.3	93.5	84.0	42.9	87.1	837
	09-11	100.7	100.0	99.5	98.6	94.6	88.4	79.1	59.3	24.0	80.2	837
	12-14	100.0	100.0	97.7	92.5	83.0	68.8	51.5	31.1	8.8	68.8	837
	15-17	100.0	99.8	97.6	91.7	80.6	64.9	49.1	26.6	7.2	67.4	835
	18-20	100.0	100.0	99.3	98.1	94.5	86.9	75.3	53.9	17.0	76.3	833
	21-23	100.0	100.0	99.8	98.3	96.8	94.5	88.4	73.1	30.3	83.8	834
TOTALS		100.0	100.0	99.1	97.1	93.0	86.7	77.6	61.8	26.1	79.8	6687

FORM  
FD-36 (Rev. 4-15-64)

0-87-5 (OL A)

1  
GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

## RELATIVE HUMIDITY

724835  
STATION

MATHER AFB CA

STATION NAME

73-81

PERIOD

ALL  
MONTH

### CUMULATIVE PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

MONTH	HOURS (LST)	PERCENTAGE FREQUENCY OF RELATIVE HUMIDITY GREATER THAN									MEAN RELATIVE HUMIDITY	TOTAL NO OF OBS
		10%	20%	30%	40%	50%	60%	70%	80%	90%		
JAN	ALL	100.0	100.0	99.8	98.6	95.0	89.9	81.2	62.4	29.3	81.4	6693
FEB		100.0	100.0	99.8	97.7	92.4	82.4	69.7	47.9	14.5	76.2	6092
MAR		100.0	99.8	98.6	90.7	82.3	70.8	56.3	32.2	9.6	69.6	6696
APR		100.0	97.7	92.0	82.2	69.1	54.9	41.0	20.1	3.7	61.8	6478
MAY		100.0	95.8	84.5	68.5	52.9	37.0	21.5	6.4	.5	52.4	6696
JUN		99.9	90.9	73.8	56.9	37.3	21.4	10.6	2.5	.1	45.1	6478
JUL		99.9	92.8	76.5	58.5	40.6	24.3	12.1	3.3	.3	46.6	6694
AUG		100.0	96.0	83.3	65.6	48.2	31.3	17.8	6.1	.7	50.6	6696
SEP		100.0	97.0	85.3	70.3	55.2	39.3	24.7	10.0	1.7	54.2	6477
OCT		100.0	98.8	90.9	78.5	63.5	48.4	34.6	17.9	4.3	59.5	6693
NOV		100.0	99.9	97.7	93.8	86.6	76.2	63.2	42.4	15.3	73.3	6456
DEC		100.0	100.0	99.1	97.1	93.0	86.7	77.6	61.8	26.1	79.8	6687
TOTALS		100.0	97.4	89.9	79.9	68.0	55.2	42.5	26.1	8.8	62.5	78836

USAFETAC

FORM  
JUL 64

0-87-5 (OL A)

U S AIR FORCE  
ENVIRONMENTAL TECHNICAL  
APPLICATIONS CENTER

PART F

PRESSURE SUMMARY

Presented in this part are two tables giving the means, standard deviations, and total number of observations of station pressure and sea-level pressure by month and annual for the local hourly observations corresponding to the eight 3-hourly synoptic times GCT. The same computations are also provided at the bottom of the page for all hours combined. All years of data available are combined in both of these tables, although the overall period is limited by service as indicated below.

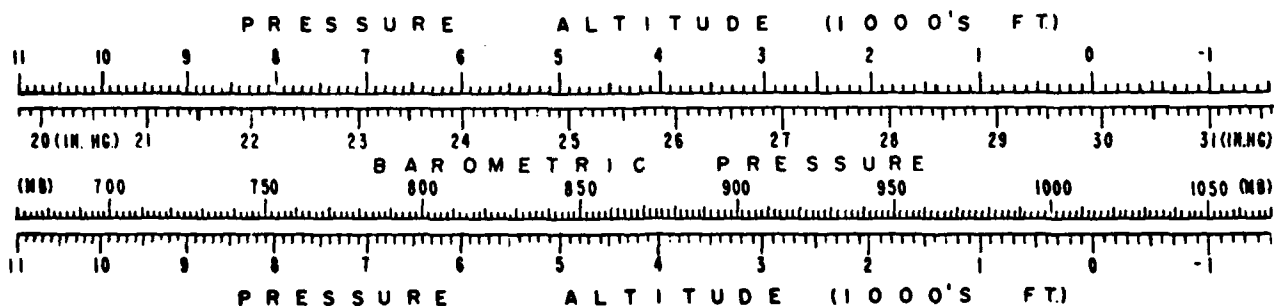
NOTES: Station pressure not reported for all services until late in 1945.

Station pressure reported only at 6-hourly times for Air Force stations from Jan 64 - Jul 65.

METAR stations do not report Sea-level pressure for the period Jan 68 - Dec 70.

1. Station pressure is presented in the table in inches of mercury.
2. Sea-level pressure is presented in millibars.

Provided below is a scale to convert station pressure values in inches of mercury or millibars to pressure-altitude in 1000's of feet. This scale is an enlarged model of the pressure-altitude scale in the Smithsonian Meteorological Tables.



GLOBAL CLIMATOLOGY BRANCH  
AFETAC  
AIR WEATHER SERVICE/440

## MEANS AND STANDARD DEVIATIONS

STATION PRESSURE IN INCHES HG FROM HOURLY OBSERVATIONS

STATION 535 WATHER AFB CA

73-81

STATION	STATION NAME	YEARS												
HRS IL ST	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL	
MEAN	29.98	29.974	29.899	29.895	29.811	29.787	29.773	29.773	29.782	29.876	29.979	30.032	29.880	
S D	.169	.182	.167	.111	.092	.099	.079	.079	.086	.102	.145	.156	.155	
TOTAL OBS	279	253	279	279	279	279	279	279	279	279	269	279	3285	
MEAN	29.979	29.964	29.892	29.891	29.809	29.789	29.775	29.773	29.784	29.876	29.978	30.031	29.878	
S D	.171	.185	.161	.112	.091	.099	.078	.079	.084	.104	.145	.154	.155	
TOTAL OBS	279	254	279	279	279	279	279	279	279	279	269	279	3286	
MEAN	29.983	29.976	29.912	29.916	29.838	29.819	29.806	29.805	29.815	29.901	29.995	30.041	29.901	
S D	.175	.190	.164	.114	.090	.097	.077	.078	.083	.105	.148	.155	.152	
TOTAL OBS	279	254	279	269	279	279	279	279	279	279	269	279	3285	
MEAN	29.024	30.004	29.936	29.930	29.845	29.824	29.815	29.818	29.831	29.924	30.023	30.076	29.920	
S D	.175	.193	.164	.116	.091	.097	.077	.078	.083	.105	.149	.156	.158	
TOTAL OBS	279	254	279	269	279	279	279	279	279	279	269	279	3284	
MEAN	29.977	29.971	29.905	29.900	29.815	29.798	29.786	29.782	29.791	29.878	29.976	30.025	29.883	
S D	.17	.186	.160	.115	.090	.098	.078	.079	.083	.104	.148	.154	.153	
TOTAL OBS	279	254	279	279	279	279	279	279	279	279	269	279	3286	
MEAN	29.955	29.937	29.868	29.861	29.777	29.761	29.743	29.737	29.747	29.844	29.950	30.004	29.848	
S D	.168	.184	.155	.113	.091	.098	.081	.081	.084	.106	.147	.153	.156	
TOTAL OBS	279	254	279	279	279	279	279	279	279	279	269	278	3284	
MEAN	29.964	29.946	29.872	29.861	29.776	29.756	29.738	29.732	29.748	29.852	29.958	30.011	29.850	
S D	.168	.183	.151	.110	.091	.097	.081	.082	.084	.105	.148	.155	.159	
TOTAL OBS	279	254	279	279	279	269	279	279	279	279	269	278	3284	
MEAN	29.932	29.963	29.899	29.889	29.809	29.787	29.771	29.765	29.778	29.876	29.977	30.031	29.877	
S D	.168	.185	.153	.110	.092	.097	.079	.081	.084	.103	.149	.155	.155	
TOTAL OBS	279	254	279	279	279	279	279	279	279	279	269	278	3285	
ALL HOURS	MEAN	29.981	29.967	29.898	29.893	29.813	29.796	29.776	29.773	29.784	29.878	29.979	30.032	29.880
	S D	.171	.187	.160	.115	.094	.100	.083	.084	.088	.107	.149	.156	.157
	TOTAL OBS	2231	2031	2232	2158	2232	2159	2232	2232	2160	2231	2152	2229	26279



CLIMATE CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

## MEANS AND STANDARD DEVIATIONS

SEA LEVEL PRESSURE IN MBS FROM HOURLY OBSERVATIONS

72 855 MATHER AFB CA

73-81

STATION

STATION NAME

YEARS

HRS (LST)	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL	
MEAN	1.19.1	1.18.8	1.16.2	1.16.1	1.13.2	1.12.4	1.11.9	1.11.9	1.12.2	1.15.4	1.18.9	1.20.8	1.15.6	
S D	5.703	6.173	5.428	3.787	3.111	3.357	2.706	2.685	2.928	3.462	4.920	5.273	5.285	
TOTAL OBS	279	253	279	270	279	270	279	279	270	279	269	279	3285	
MEAN	1.18.9	1.18.4	1.15.9	1.15.9	1.13.1	1.12.4	1.12.0	1.11.9	1.12.3	1.15.4	1.18.9	1.20.7	1.15.5	
S D	5.786	6.292	5.487	3.803	3.089	3.346	2.652	2.679	2.858	3.522	4.933	5.213	5.268	
TOTAL OBS	279	254	279	270	279	270	279	279	270	279	269	279	3286	
MEAN	1.19.2	1.18.9	1.16.7	1.16.8	1.14.1	1.13.5	1.13.0	1.13.0	1.13.4	1.16.3	1.19.5	1.21.1	1.16.3	
S D	5.926	6.438	5.588	3.861	3.084	3.295	2.618	2.646	2.808	3.574	5.014	5.269	5.163	
TOTAL OBS	279	254	279	269	278	270	279	279	270	279	269	278	3282	
MEAN	1.20.5	1.19.8	1.17.5	1.17.3	1.14.4	1.13.7	1.13.3	1.13.4	1.13.9	1.17.1	1.20.4	1.22.3	1.16.9	
S D	5.964	6.552	5.590	3.923	3.097	3.301	2.610	2.627	2.823	3.579	5.064	5.285	5.369	
TOTAL OBS	279	254	279	269	279	270	279	279	270	278	269	279	3284	
MEAN	1.18.9	1.18.7	1.16.4	1.16.3	1.13.3	1.12.8	1.12.3	1.12.2	1.12.5	1.15.5	1.18.8	1.20.5	1.15.7	
S D	5.772	6.323	5.442	3.896	3.073	3.356	2.653	2.692	2.814	3.546	5.024	5.237	5.204	
TOTAL OBS	279	254	279	270	279	270	279	279	270	279	269	279	3286	
MEAN	1.18.1	1.17.5	1.15.2	1.14.9	1.12.0	1.11.5	1.10.9	1.10.7	1.11.0	1.14.3	1.17.9	1.19.8	1.14.5	
S D	5.669	6.253	5.258	3.832	3.077	3.342	2.738	2.755	2.852	3.577	4.993	5.190	5.304	
TOTAL OBS	279	254	279	270	279	270	279	279	270	279	269	278	3284	
MEAN	1.18.4	1.17.8	1.15.3	1.14.9	1.12.0	1.11.3	1.10.7	1.10.5	1.11.1	1.14.6	1.18.2	1.20.1	1.14.6	
S D	5.701	6.226	5.137	3.729	3.092	3.314	2.756	2.789	2.887	3.586	5.030	5.237	5.401	
TOTAL OBS	279	254	279	270	279	269	279	279	270	279	269	278	3284	
MEAN	1.19.0	1.18.4	1.16.2	1.15.9	1.13.2	1.12.4	1.11.8	1.11.6	1.12.1	1.15.4	1.18.9	1.20.7	1.15.5	
S D	5.684	6.279	5.210	3.713	3.125	3.311	2.709	2.756	2.857	3.497	5.059	5.222	5.284	
TOTAL OBS	279	254	279	270	279	270	279	279	270	278	269	278	3284	
ALL HOURS	MEAN	1.19.1	1.18.5	1.16.2	1.16.0	1.13.2	1.12.5	1.12.0	1.11.9	1.12.3	1.15.5	1.19.0	1.20.7	1.15.6
S D	5.813	6.341	5.432	3.891	3.189	3.411	2.811	2.859	2.996	3.629	5.047	5.278	5.339	
TOTAL OBS	2231	2031	2232	2158	2231	2159	2232	2232	2160	2230	2152	2228	26275	

END

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